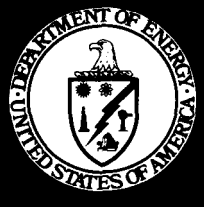
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(Section 112)



Environmental Assessment

Davis Canyon Site, Utah

Volume III

May 1986

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Office of Civilian Radioactive Waste Management
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MASTER

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Appendix C

COMMENT-RESPONSE DOCUMENT

TABLE OF CONTENTS

		Page
C.1	INTRODUCTION	C.1-1
C.1.1	The comment process for the environmental assessments	C.1-1
C.1.2	Classification of comments	C.1-2
C.1.2.1	Policy and programmatic issues	C.1-2
C.1.2.2	Siting process and decisions	C.1-2
C.1.2.3	Data base, proposed activities, repository design	C.1-3
C.1.2.4	Postclosure performance	C.1-3
C.1.2.5	Preclosure radiological safety	C.1-4
C.1.2.6	Environmental, socioeconomic, and transportation	C.1-4
C.1.2.7	Ease and cost of siting, construction, operation, and closure	C.1-5
C.1.2.8	Project-specific miscellaneous	C.1-5
C.2	POLICY ISSUES	C.2-1
C.2.1	Public involvement and institutional issues	C.2-1
C.2.1.1	The DOE's public participation process	C.2-1
C.2.1.1.1	Public review of the draft environmental assessments	C.2-1
C.2.1.1.2	Hearings	C.2-3
C.2.1.1.3	DOE relations with the public	C.2-6
C.2.1.1.4	Access to information	C.2-8
C.2.1.2	Interactions with States, affected Indian Tribes, and local communities	C.2-10
C.2.1.2.1	Interactions with States	C.2-10
C.2.1.2.2	Interactions with affected Indian Tribes	C.2-14
C.2.1.2.3	Working with local communities	C.2-14
C.2.1.2.4	Financial assistance	C.2-15
C.2.1.3	Working with other Federal agencies	C.2-18
C.2.1.4	Working with other countries	C.2-20
C.2.1.5	Socioeconomic impacts	C.2-20
C.2.1.5.1	Socioeconomic impacts and their mitigation	C.2-20
C.2.1.5.2	Land acquisition and property values	C.2-23
C.2.2	Legal and regulatory issues	C.2-25
C.2.3	Program management, costs, and schedules	C.2-28
C.2.3.1	Program management	C.2-28
C.2.3.1.1	Conflicts of interest	C.2-28
C.2.3.1.2	Technical peer review	C.2-29
C.2.3.1.3	Need for program plan	C.2-30
C.2.3.1.4	Protection of the environment	C.2-30
C.2.3.2	Program costs	C.2-30
C.2.3.3	Schedule	C.2-32

TABLE OF CONTENTS (Continued)

Page

C.2.3.3.1 Dependence of site-selection process on schedule C.2-33
C.2.3.3.2 Effects on the consultation process C.2-33
C.2.3.3.3 Effects on the adequacy of technical data C.2-34
C.2.4 Transportation, retrievability, and second repository . . . C.2-35
C.2.4.1 Transportation C.2-35
C.2.4.1.1 Cost and risk estimates for transportation C.2-36
C.2.4.1.2 Route-specific analysis C.2-37
C.2.4.1.3 Assessment of the consequences of accidents C.2-37
C.2.4.1.4 Maximum exposure of individuals C.2-38
C.2.4.1.5 Modal split for shipments C.2-38
C.2.4.1.6 Defense waste C.2-39
C.2.4.1.7 Monitored retrievable storage C.2-39
C.2.4.1.8 Barge transportation C.2-39
C.2.4.1.9 Consideration of a second repository C.2-40
C.2.4.1.10 The use of existing casks in the EA analysis C.2-41
C.2.4.1.11 Adequacy of current cask designs C.2-41
C.2.4.1.12 Additional testing of casks C.2-41
C.2.4.1.13 Cask weeping C.2-42
C.2.4.1.14 Adequacy of NRC testing requirements C.2-43
C.2.4.1.15 Legal impediments C.2-43
C.2.4.1.16 State designation of alternative routes C.2-44
C.2.4.1.17 Indian rights C.2-44
C.2.4.1.18 Availability of railroads for transporting radioactive waste C.2-44
C.2.4.1.19 Railroad regulations C.2-45
C.2.4.1.20 Dedicated trains C.2-46
C.2.4.1.21 Regional transportation analysis C.2-46
C.2.4.1.22 Weather impacts C.2-46
C.2.4.1.23 Potential for human error C.2-47
C.2.4.1.24 Retrieval of waste C.2-47
C.2.4.1.25 Financing infrastructure improvement C.2-48
C.2.4.1.26 Adequacy of the transportation guideline C.2-48
C.2.4.1.27 Inadequate treatment of transportation issues C.2-49
C.2.4.2 Retrievability C.2-49

TABLE OF CONTENTS (Continued)

		Page
	C.2.4.3 Second repository	C.2-50
C.2.5	Other waste-management activities	C.2-52
	C.2.5.1 Monitored retrievable storage	C.2-52
	C.2.5.2 Onsite storage	C.2-53
	C.2.5.3 Reprocessing	C.2-54
C.2.6	Types of waste to be received at a repository	C.2-56
	C.2.6.1 Defense waste	C.2-57
	C.2.6.2 Foreign waste	C.2-60
	C.2.6.3 Other waste	C.2-61
C.2.7	The Draft Environmental Assessments	C.2-61
	C.2.7.1 EA format and distribution	C.2-61
	C.2.7.2 Supporting references	C.2-67
	C.2.7.3 Content of the environmental assessments	C.2-69
	C.2.7.3 Inconsistencies in the environmental assessments	C.2-73
C.2.8	Miscellaneous	C.2-79
	C.2.8.1 Production of radioactive waste	C.2-79
	C.2.8.2 Alternatives to geologic disposal	C.2-80
	C.2.8.3 Generic technical issues	C.2-82
C.2.9	References for C.2	C.2-82
C.3	SITING PROCESS AND DECISIONS	C.3-1
C.3.1	Siting guidelines and site screening	C.3-1
	C.3.1.1 The siting guidelines	C.3-1
	C.3.1.1.1 Development of the guidelines	C.3-1
	C.3.1.1.2 Time of publication	C.3-3
	C.3.1.1.3 Adequacy of the siting guidelines	C.3-4
	C.3.1.1.4 Comments on particular guidelines	C.3-7
	C.3.1.2 Generic site-screening issues	C.3-8
	C.3.1.2.1 Use of ambiguous criteria and lack of uniformity	C.3-8
	C.3.1.2.2 Importance of host-rock diversity	C.3-10
	C.3.1.2.3 Selection of sites on the basis of land use	C.3-10
	C.3.1.2.4 Screening for sites in salt	C.3-11
	C.3.1.2.5 Particular siting issues	C.3-12
	C.3.1.2.6 Alternative repository locations	C.3-15
	C.3.1.3 Davis Canyon site-screening issues	C.3-15
C.3.2	Evaluation of disqualifying conditions	C.3-17
C.3.3	Evaluation of geohydrologic settings	C.3-19
C.3.4	Nomination and recommendation of sites for characterization	C.3-21
	C.3.4.1 Comparison of sites on the basis of postclosure guidelines	C.3-22
	C.3.4.1.1 System guideline	C.3-23

Page

C.3.4.1.2 Geohydrology C.3-23
C.3.4.1.3 Geochemistry C.3-31
C.3.4.1.4 Rock characteristics C.3-36
C.3.4.1.5 Climatic change C.3-40
C.3.4.1.6 Erosion C.3-42
C.3.4.1.7 Dissolution C.3-43
C.3.4.1.8 Tectonics C.3-44
C.3.4.1.9 Natural resources C.3-46
C.3.4.1.10 Site ownership and control C.3-48
C.3.4.2 Comparison of sites on the basis of preclosure guidelines C.3-49
C.3.4.2.1 Preclosure radiological safety C.3-49
C.3.4.2.1.1 Population density and distribution C.3.49
C.3.4.2.1.2 Site ownership and control C.3.50
C.3.4.2.1.3 Meteorology C.3.51
C.3.4.2.1.4 Offsite installations and operations C.3.53
C.3.4.2.2 Environment, socioeconomics, and transportation C.3-54
C.3.4.2.2.1 Environmental quality . . C.3-54
C.3.4.2.2.2 Socioeconomic impacts . . C.3.57
C.3.4.2.2.3 Transportation C.3.60
C.3.4.2.3 Ease and cost of siting, construction, operation, and closure C.3-61
C.3.4.2.3.1 Surface characteristics C.3.62
C.3.4.2.3.2 Rock characteristics . . . C.3.63
C.3.4.2.3.3 Hydrology C.3.64
C.3.4.2.3.4 Tectonics C.3.66
C.3.4.3 Decision method C.3-67
C.3.4.4 Opposition to preferred site recommendations . . C.3-69
C.3.5 References for Chapter C.3 . . . . . C.3-77
C.3.5.1 References listed by author C.3-77
C.3.5.2 Federal regulations and statutes C.3-78

C.4 DATA BASE, PROPOSED ACTIVITIES, REPOSITORY DESIGN C.4-1
C.4.1 Baseline conditions at the site C.4-1
C.4.1.1 Geologic conditions C.4-2
C.4.1.1.1 Regional geology C.4-4
C.4.1.1.2 Geomorphology C.4-5
C.4.1.1.3 Stratigraphy C.4-5
C.4.1.1.4 Paleontology C.4-6
C.4.1.1.5 Structure and tectonics C.4-7
C.4.1.1.6 Rock characteristics C.4-10
C.4.1.1.7 Geochemistry C.4-14

TABLE OF CONTENTS (Continued)

		Page
C.4.1.1.8	Mineral resources	C.4-21
C.4.1.1.9	Soils	C.4-22
C.4.1.2	Hydrologic conditions	C.4-23
C.4.1.2.1	Surface water	C.4-24
C.4.1.2.2	Ground water	C.4-26
C.4.1.2.3	Current use	C.4-30
C.4.1.3	Environmental conditions	C.4-31
C.4.1.3.1	Land use	C.4-33
C.4.1.3.2	Ecosystems	C.4-35
C.4.1.3.3	Air quality and weather	C.4-37
C.4.1.3.4	Noise	C.4-38
C.4.1.3.5	Aesthetic resources	C.4-39
C.4.1.3.6	Archaeological, cultural, and historical resources	C.4-41
C.4.1.3.7	Background radiation	C.4-42
C.4.1.4	Transportation	C.4-43
C.4.1.5	Socioeconomic conditions	C.4-45
C.4.1.5.1	Population	C.4-46
C.4.1.5.2	Economic conditions	C.4-47
C.4.1.5.3	Community services	C.4-49
C.4.1.5.4	Social conditions	C.4-51
C.4.1.5.5	Government and fiscal conditions	C.4-52
C.4.2	Activities proposed for site characterization	C.4-53
C.4.2.1	Field studies	C.4-54
C.4.2.2	Exploratory shaft	C.4-56
C.4.2.3	Other activities	C.4-65
C.4.3	The repository	C.4-67
C.4.4	References for Chapter C.4	C.4-93
C.4.4.1	References listed by author	C.4-93
C.4.4.2	Federal regulations and statutes and DOE Orders	C.4-98
C.5	POSTCLOSURE PERFORMANCE	C.5-1
C.5.1	Geohydrology	C.5-1
C.5.2	Geochemistry	C.5-3
C.5.3	Rock characteristics	C.5-10
C.5.4	Climate changes	C.5-18
C.5.5	Erosion	C.5-20
C.5.6	Dissolution	C.5-21
C.5.7	Tectonics	C.5-23
C.5.8	Human interference (natural resources)	C.5-31
C.5.9	Postclosure site ownership and control	C.5-34
C.5.10	Postclosure system guideline	C.5-36
C.5.11	Assessment of postclosure performance	C.5-37
C.5.12	References for Chapter C.5	C.5-65
C.5.12.1	References listed by author	C.5-65
C.5.12.2	Federal regulations and statutes	C.5-72

		Page
C.6	PRECLOSURE RADIOLOGICAL SAFETY	C.6-1
C.6.1	Population density and distribution	C.6-1
C.6.2	Site ownership and control	C.6-2
C.6.3	Meteorology	C.6-7
C.6.4	Offsite installations and operations	C.6-8
C.6.5	System Guideline - preclosure radiological safety	C.6-9
C.6.6	Assessment of preclosure performance	C.6-10
C.6.7	References for Chapter C.6	C.6-12
C.6.7.1	References listed by author	C.6-12
C.6.7.2	Federal regulations and statutes	C.6-12
C.7	ENVIRONMENT, SOCIOECONOMICS, AND TRANSPORTATION	C.7-1
C.7.1	Expected effects of site characterization	C.7-1
C.7.1.1	Effects on the physical environment	C.7-3
C.7.1.1.1	Land use	C.7-6
C.7.1.1.2	Ecosystems	C.7-8
C.7.1.1.3	Air quality	C.7-12
C.7.1.1.4	Aesthetic conditions	C.7-15
C.7.1.1.5	Noise	C.7-17
C.7.1.1.6	Archaeological, cultural, and historical resources	C.7-18
C.7.1.1.7	Radiological	C.7-21
C.7.1.1.8	Water quality	C.7-21
C.7.1.1.9	Transportation and utilities	C.7-23
C.7.1.2	Effects on socioeconomics conditions	C.7-25
C.7.2	Environmental quality	C.7-29
C.7.2.1	Land use	C.7-36
C.7.2.2	Ecosystems	C.7-39
C.7.2.3	Air quality	C.7-44
C.7.2.4	Aesthetic conditions	C.7-47
C.7.2.5	Noise	C.7-50
C.7.2.6	Archaeological, cultural, and historical resources	C.7-50
C.7.2.7	Radiological	C.7-52
C.7.2.8	Water quality	C.7-52
C.7.3	Expected effects of transportation	C.7-55
C.7.4	Expected effects on socioeconomic conditions	C.7-60
C.7.4.1	Population density and distribution	C.7-62
C.7.4.2	Economic conditions	C.7-65
C.7.4.3	Community services	C.7-67
C.7.4.4	Social conditions	C.7-68
C.7.4.5	Fiscal conditions and government structure	C.7-69
C.7.5	System Guideline	C.7-70
C.7.6	References for Chapter C.7	C.7-72
C.7.6.1	References listed by author	C.7-72
C.7.6.2	Federal regulations and statutes	C.7-74
C.7.6.3	State of Utah laws	C.7-75

TABLE OF CONTENTS (Continued)

		Page
C.8	EASE AND COST OF SITING, CONSTRUCTION, OPERATION, AND CLOSURE . .	C.8-1
	C.8.1 Surface characteristics	C.8-1
	C.8.2 Rock characteristics	C.8-1
	C.8.3 Preclosure hydrology	C.8-11
	C.8.4 Preclosure tectonics	C.8-13
	C.8.5 System Guideline	C.8-16
	C.8.6 References for Chapter C.8	C.8-18
	C.8.6.1 References listed by author	C.8-18
	C.8.6.2 Federal regulations and statutes	C.8-19
C.9	COMMENT-RESPONSE INDEX	C.9-1

Appendix C

C.1 INTRODUCTION

This appendix responds to the issues raised by Federal, State, and local governments, affected Indian Tribes, private citizens, and other organizations on the draft environmental assessment (EA) that was prepared pursuant to Section 112 of the Nuclear Waste Policy Act of 1982 (the Act). In addition to presenting the issues raised in the comments and the responses, it describes where changes were made in the final EA.

C.1.1 THE COMMENT PROCESS FOR THE ENVIRONMENTAL ASSESSMENTS

A notice of availability of the draft EA appeared in the Federal Register of December 20, 1984. This notice requested interested parties to review and comment on the draft EA, allowing 90 days for the comment period. The notice also announced an extensive series of public briefings to be held in each of the six States containing potentially acceptable sites for the first repository. These briefings were conducted solely to provide information on the draft EAs, not to solicit comments. Several weeks after the briefings, the DOE held hearings in which the public was invited to submit testimony for the public record.

Comments on the draft EA were in the form of letters addressed to the U.S. Department of Energy and of oral statements presented at 19 public hearings conducted in February and March 1985. Each comment letter or the recorded statement of each hearing participant was given a document-identification number and examined to identify comments. The comments in each letter were numbered sequentially. Copies of the comments and letters can be seen in the public reading rooms at DOE Headquarters and the Project Offices.

Each comment was classified according to subject area and assigned a classification number that corresponds to a section of the Comment Response Document. By referring to the index at the end of this section, each commenter can find the section of the appendix where the issues raised by the comments are addressed.

The subject matter of the comments fell into seven different areas: policy issues; siting process and decisions; data base, proposed activities, and repository design; postclosure performance; preclosure radiological safety; environment, socioeconomics, and transportation; and ease and cost of siting, construction, operation, and closure. The last four groups correspond to the division of technical areas in the general siting guidelines (10 CFR Part 960). Each group is further broken down into more specific topic areas shown in Section C.1.2. Where appropriate, Section C.1.2 shows the section of the EA to which the comment referred.

Within each topic area the the individual comments were screened to determine the specific issues they addressed. Responses were then prepared for each issue. Editorial comments (e.g., spelling and grammatical errors, incorrect cross-referencing, and errors in tables and figures) were considered during the preparation of the final EA, and the appropriate changes were made. Such comments are not specifically discussed in this appendix. Responses to technical issues identify how and to what degree the issue has been incorporated into the final EA. Where possible, the response identifies the places in the final EA where the change was made. For technical comments addressing concerns outside the scope of the document, a statement is made to that effect.

C.1.2 CLASSIFICATION OF COMMENTS

C.1.2.1 Policy and programmatic issues

Section C.2 summarizes and responds to comments that are concerned mainly with policy and programmatic issues. Most of these comments do not address siting decisions or the evaluations reported in the EAs. The exceptions are general comments on transportation, many of which are directed at Appendix A of the draft EAs.

Classification number	Subject
C.2.1	Public involvement and institutional issues
C.2.2	Legal and regulatory issues
C.2.3	Program management, costs, and schedules
C.2.4	Transportation, retrievability, and second repository
C.2.5	Other waste-management activities
C.2.6	Types of waste to be received at a repository
C.2.7	The draft environmental assessments
C.2.8	Miscellaneous

C.1.2.2 Siting process and decisions

Section C.3 addresses questions on the siting process and decisions. Many comments on siting decisions are closely related to technical evaluations of baseline conditions at the sites and of site suitability on the basis of the technical guidelines. Comments that primarily address site-suitability evaluations or supporting information are not included in this section; comments that address the application of suitability evaluations in the rankings of sites are included in this section.

Classification number	Subject	EA section
C.3.1	Site screening and guidelines issues	1.2, 2.2
C.3.2	Evaluation of disqualifying conditions	2.3
C.3.3	Evaluation of the geohydrologic setting	1.3, 2.4
C.3.4	Nomination and recommendation of sites for characterization	7.1, 7.2, 7.3

C.1.2.3 Data base, proposed activities, repository design

Section C.4 addresses comments on the accuracy or adequacy of the baseline information about the repository system, site characterization activities, and the site itself that is used to evaluate site suitability and the impacts of developing the site.

Classification number	Subject	EA section
C.4.1	Baseline conditions at the site	3.2, 3.3
C.4.2	Activities proposed for site characterization	
C.4.3	The repository (including the waste package	5.1

C.1.2.4 Postclosure performance

Section C.5 includes comments on the condition and performance of the repository after it is closed and sealed.

Classification number	Subject	EA section
C.5.1	Geohydrology	6.3.1.1, 5.2.2
C.5.2	Geochemistry	6.3.1.2, 5.2.1, 3.2
C.5.3	Rock characteristics	6.3.1.3, 5.2.1, 3.2
C.5.4	Climate changes	6.3.1.4, 3.4.3
C.5.5	Erosion	6.3.1.5, 5.2.1, 3.2

Classification number	Subject	EA section
C.5.6	Dissolution	6.3.1.6, 5.2.1, 3.2
C.5.7	Tectonics	6.3.1.7, 5.2.1, 3.2
C.5.8	Human interference (natural resources)	6.3.1.8, 5.2.1, 3.2
C.5.9	Postclosure site ownership and control	6.2.1.1, 3.4.1
C.5.10	Postclosure system guideline	6.3.2
C.5.11	Assessment of postclosure performance	6.4.2

C.1.2.5 Preclosure radiological safety

Section C.6 addresses comments on the behavior and effects of radionuclide releases during repository operations.

Classification number	Subject	EA section
C.6.1	Population density and distribution	6.2.1.2, 5.4.1, 3.6.1
C.6.2	Site ownership and control	6.2.1.3, 3.4.1
C.6.3	Meteorology	6.2.1.4, 3.4.3
C.6.4	Offsite installations and operations	6.2.1.5
C.6.5	System guideline	6.2.2.1
C.6.6	Assessment of preclosure performance	6.4.1

C.1.2.6 Environment, socioeconomics, and transportation

Section C.7 addresses comments on (1) the environmental, socioeconomic, and transportation-related effects of repository development and site characterization; (2) the technical guidelines for socioeconomics, transportation, and the environment; and (3) the use of these guidelines in evaluating the relevant system guideline. Most comments in this category are concerned with the characteristics of the repository before it is closed and decommissioned.

Classification number	Subject	EA section
C.7.1	Expected effects of site characterization	6.3.5
C.7.2	Environmental quality	6.2.1.6
C.7.3	Expected effects of transportation	5.3, 6.2.1.8, 3.5
C.7.4	Expected effects on socioeconomic conditions	6.2.1.7
C.7.5	System guideline	6.2.2.2

C.1.2.7 Ease and cost of siting, construction, operation, and closure

Section C.8 addresses comments about the problems and costs of siting, constructing, operating, and closing the repository.

Classification number	Subject	EA section
C.8.1	Surface characteristics	6.3.3, 3.4.1, 5.1
C.8.2	Rock characteristics	6.3.3, 3.2, 5.1
C.8.3	Preclosure hydrology	6.3.3, 3.3, 5.1
C.8.4	Preclosure tectonics	6.3.3, 3.3, 5.1
C.8.5	System guideline	6.3.4

C.1.2.8 Project-specific miscellaneous

Section C.9 addresses site-specific issues that are not addressed in the technical sections of the document.

C.2 POLICY ISSUES

Many of the comments on the draft EAs were concerned with various policy issues, which are addressed in this section: public involvement and institutional issues (Section C.2.1); compliance with Federal and State laws and regulations, including interpretations of the Nuclear Waste Policy Act (Section C.2.2); program management, costs, and schedules (Section C.2.3); policy issues related to waste management, such as transportation, retrievability, monitored retrievable storage, and spent-fuel reprocessing (Sections C.2.4 and C.2.5); and the types of waste to be received at the repository (Section C.2.6). Also included in this section are direct comments on the draft EAs (Section C.2.7) and miscellaneous issues (Section C.2.8).

C.2.1 PUBLIC INVOLVEMENT AND INSTITUTIONAL ISSUES

This section addresses comments on public involvement and institutional issues. These issues are divided into five categories: conduct of the public-participation process; interactions with States, affected Indian Tribes, and local communities; working with Federal agencies; working with other countries; and socioeconomic impacts.

C.2.1.1 The DOE's public participation process

Comments on the DOE's public-participation process were concerned mainly with reviews of, and hearings on, the draft EAs. Other issues in this category were related to the DOE's relations with the public and access to information.

C.2.1.1.1 Public review of the draft environmental assessments

Many commenters said that the 90-day comment period for the draft EAs was not long enough for a thorough review. Others complained about delays or difficulties in receiving copies of the draft EAs and suggested that the documents should have been available in public libraries.

Issue

Many commenters said that the 90-day public comment period did not permit a thorough review of the lengthy and technical draft EAs, especially since the beginning of the comment period coincided with the year-end holidays.

Response

The DOE issued the draft EAs for public comment in the interest of expanding public participation in the site-selection process. The issuance of draft EAs was not required by the Act, and it entailed significant penalties in schedule. The DOE decided to accept these penalties because it deemed this

opportunity for public involvement to be important. Futhermore, in response to public comments on the draft Mission Plan (DOE, 1984a) the DOE extended the planned EA comment period from 60 to 90 days. One of the purposes of this extension was to compensate for potential delays in the mailing and distribution of the documents during the holiday season.

To help the public understand the draft EAs, the DOE conducted a series of interactive briefings in January 1985 and 19 public hearings in February and March 1985 in the six States containing the sites and in an adjacent State.

In revising the EAs, a special effort was made to consider comments received after the March 20, 1985, deadline. The final EAs reflect comments received as late as August 30, 1985.

Issue

DOE representatives allegedly had promised that the comment period would be extended, but it was not.

Response

The DOE did not officially extend the public-comment period. However, as explained above, the DOE made every effort to consider comments received after the deadline, and, as mentioned above, the final EAs reflect comments received up to 5 months after the deadline.

Issue

Because the 90-day comment period began before his term, the new Governor of Utah had less opportunity for involvement.

Response

The State of Utah submitted supplementary comments. These comments were received on May 1, 1985, and were considered in revising the EAs.

Issue

Some persons said they had experienced difficulty in obtaining copies of the draft EAs or felt that the DOE's response to requests for copies was very slow.

Response

To facilitate requests for the draft EAs, the DOE set up toll-free telephone numbers for use by the general public during the 90-day comment period. Despite some initial difficulties, the toll-free system worked well as a means for requesting the EAs. However, the DOE recognizes with regret that some persons may have experienced delays in receiving the EAs. The demand for the EAs was great, and over 5,000 copies were distributed.

Issue

Some commenters said that documents like the EAs should be available in libraries to facilitate timely review. One party complained that access to the reference documents for the EAs was very poor in the local libraries.

Response

Copies of the draft EAs were placed in the public libraries of local communities closest to the potentially acceptable sites. In addition, copies were available in DOE public reading rooms, which are open during normal business hours and have copies of all available program-related materials, including most of the reference documents cited in the EAs. Moreover, the draft EAs and the reference documents were available in the DOE public information offices in communities near all the potentially acceptable sites.

Issue

One commenter recommended that in soliciting comments the DOE should give a name to whom to write, rather than "comments."

Response

In the Federal Register notice that announced the availability of the draft EAs, interested parties were requested to send comments to "Comments--EA," which was a special mail stop set up to receive comments letters. The names of several DOE officials were also given for further information on specific draft EAs. The intent was to facilitate the comment-response process by not overloading any single individual or mail stop.

C.2.1.1.2 Hearings

Several commenters complained about the public hearings on the draft EAs; they said that the DOE had not adequately notified the public about the hearings and that the hearings were scheduled at inconvenient times and locations. Others said that there were problems with the conduct of the hearings themselves: that unreasonable limits were placed on the scope of the subject matter and on the time allotted each speaker; that the hearings became an exchange of misinformation; and that panel members did not adequately represent the views of the community.

Issue

Some comments alleged that the public was not adequately notified about the hearings.

Response

Notices about the public hearings were published in the Federal Register. In order to reach the general public that does not have ready access to the Federal Register, the DOE also issued press releases from the DOE offices in Washington, D.C., as well as the DOE Project Offices

responsible for investigating the three types of host rock (basalt, salt, and tuff). In addition, the Project Offices mailed copies of the Federal Register notice of the availability of the draft EAs and the announcements of the public briefings and hearings to more than 4,000 persons and organizations that had in the past commented on, or inquired about, various aspects of the DOE's geologic-repository program. The DOE Office of Consumer Affairs made a similar mailing to approximately 200 consumer and public-interest groups, and the DOE Office for Congressional, Intergovernmental and Public Affairs notified the offices of U.S. Senators and Representatives. In addition, news releases were issued, paid advertisements were run in many local newspapers, and notices were posted in the public buildings of the local communities. In January 1985, the DOE held interactive briefings for State officials and for the public to provide information on the EAs and the public-comment process; the dates and locations of the hearings were publicized during these briefings.

Issue

Some persons objected that the schedules and the locations of the public hearings were inconvenient.

Response

The hearings were scheduled to begin more than 6 weeks after the draft EAs were issued on December 20, 1984, and several weeks after the briefings held to provide information about the EAs. This schedule allowed several weeks for preparing comments before the hearings and also time for preparing written comments after the hearings. The written comments were accorded the same importance as the oral testimony.

During February and March 1985, 19 public hearings were held in the six States containing the sites under consideration and in 1 adjacent State. The hearings were scheduled for both day and evening hours to accommodate as many people as possible. They were held in major cities that are readily served by all modes of transportation as well as in the local communities closest to, and most likely to be affected by, a repository at a particular site.

Issue

Commenters said that unreasonable limitations were placed on the scope and the procedures of the hearings, undue time limitations were placed on speakers, and the ground rules of the hearings were changed at the last minute.

Response

Although the DOE had hoped that the public would address the draft EAs in its comments, no attempt was made to limit the scope of the hearings.

In the notices of the public hearings, the DOE requested all people who wished to testify to register in advance. The agendas of the hearings were based on this preregistration. However, the DOE made it clear at each hearing that every person wishing to speak would have an opportunity. This was

accomplished by adjusting the time allotted each speaker, by extending the length of a session where necessary, and by holding an additional hearing in the State of Washington.

Hearing procedures were discussed at the public briefings that preceded the hearings, explained during registration, and again explained at the beginning of each session. They included time limits, which were necessary to give all interested parties a chance to speak. However, it was made clear at each hearing that, to accommodate all speakers, the session would be extended or additional hearings would be held. In addition, the public was reminded that written comments were welcome and could be submitted after the hearings, through March 20, 1985.

Issue

According to some commenters, public hearings should be forums for the DOE to educate the public rather than public exchanges of misinformation.

Response

The purpose of the hearings was to give the public an opportunity to be heard. The DOE uses other forums to supply information; an example is the series of briefings held during January 1985 to explain the draft EAs and the siting process and to answer questions. The hearing is the citizens' forum for educating the DOE about their needs, concerns, perceptions, and ideas. The DOE did not present information, nor did it discuss, except to clarify, the comments received at the hearings.

Issue

Some parties felt that "community representatives" on the hearing panels did not always accurately reflect the views of the community; in some cases, the presence of a particular individual could have been considered a conflict of interest.

Response

The role of the panelists was to clarify the testimony for the record, not to represent the community. Although the non-DOE panelists were selected by the DOE, they were not selected to represent any specific viewpoint.

Issue

Some commenters suggested that the DOE should open each public hearing to testimony on all of the sites rather than one specific site. This would help the public to compare the sites.

Response

None of the public hearings was restricted to the discussion of a particular site. Chapter 7, which presents a comparative evaluation of the sites against the siting guidelines, is common to all of the EAs, and to provide the reader with a basis for the comparison, the draft EAs for all nine sites were available as a package.

C.2.1.1.3 DOE relations with the public

Comments on the DOE's relations with the public covered a variety of topics, ranging from recommendations for a public referendum on waste disposal to complaints about the DOE's attitude toward the public. They also included requests for an early announcement of the sites to be recommended for characterization.

Issue

Some commenters suggested that there should be a public referendum on the issue of radioactive-waste disposal.

Response

The American political process provides citizens with several opportunities to make their views known at the local, State, and Federal levels. In 1982, the U.S. Congress, the elected representatives of the American people, found that "high-level radioactive waste and spent nuclear fuel have become major subjects of public concern, and appropriate precautions must be taken to ensure that such waste and spent fuel do not adversely affect the public health and safety and the environment for this or further generations" (Section 111(a)(7) of the Act) and therefore enacted the Nuclear Waste Policy Act of 1982. The Act stipulates the technical and public process that the DOE has been following since January 1983.

Issue

A commenter requested that the EA emphasize the "development of appropriate mechanisms to achieve public consensus" mentioned in a report.

Response

The progress report referred to a series of socioeconomic studies that will be undertaken throughout the repository-siting program. The development of public consensus is one of the objectives for the socioeconomics portion of the siting program.

Issue

Some commenters felt that the DOE has a negative attitude toward the public. Several people said that the public-involvement process was carried out solely for the sake of appearance, public comments were not taken seriously, and local sentiments will not really be considered in making the final decision.

Response

The comments of the public have been, and will continue to be, seriously considered in the decisionmaking process. The comments of the public were considered in revising the siting guidelines, and issues raised in the EA scoping hearings were considered in preparing the draft EAs. Substantive comments on the draft EAs have been considered in producing this appendix and the final EAs. Furthermore, the DOE believes that local citizens have

legitimate and vital interests in the repository program and has sought to learn their attitudes and concerns through meetings and workshops. Any appearance that the DOE has a negative attitude toward local citizens is unintended and clearly not in the interests of the DOE.

Issue

The DOE was accused of not being honest with the public, both in the context of the general program and on specific issues. For example, some persons felt that the presence of a drill rig at the Hanford site suggests that the DOE is already committed to that site.

Response

The perception of dishonesty may stem from two sources: ongoing changes in policy direction and inadequate information. Changes in policy direction are the by-product of a process that involves many people on all levels of government and the private sector. They result from changing circumstances, long time spans, improving data, and program growth and development. Although the unfortunate result may be the appearance of a coverup of facts as policy direction changes, the only alternative is an unacceptable rigidity.

To improve the problem of inadequate information, the DOE is committed to provide a full and timely flow of information about program activities to all affected parties and to provide frequent opportunities, both formal and informal, for the fullest possible participation in program activities. Accomplishing this depends on developing and maintaining information and interaction programs that meet the needs and address the concerns of States and Indian Tribes, local governments, affected citizens, the general public, and other interested parties. Detailed plans for achieving these goals are discussed in Part I of Volume I of the Mission Plan (DOE, 1985a).

Contractual arrangements for a drill rig at the Hanford site were made before the passage of the Act, but the rig has not been used at the site since the Act was passed and will be used only if Hanford is one of the sites recommended and approved for site characterization. The DOE is not committed to the Hanford site or any other site.

Issue

Commenters said that the public has not been fully informed about the site-selection process, particularly for the Deaf Smith and the Swisher sites in Texas.

Response

The potentially acceptable sites in Swisher and Deaf Smith Counties, Texas, were identified in the report Identification of Preferred Sites Within the Palo Duro Basin (DOE, 1984b) which was issued in draft form for comment in March 1984. The final report was released in November 1984. The boundaries of the sites in the final report were revised on the basis of comments on the draft report by the State of Texas and other parties. Both the draft and the

final reports were broadly distributed and made available in local libraries and information offices. Further, after the draft reports, the DOE held briefings to explain the site-selection process.

Issue

Some persons felt that a general mitigation policy of indemnifying local citizens against the burden of uncertainties should be developed.

Response

The DOE cannot eliminate uncertainty. However, it is taking steps to inform local citizens about its activities and to involve both State and local representatives in the siting process.

Issue

A number of commenters requested early announcement of the sites to be recommended for characterization. They said that the DOE should remove as soon as possible the worry of repository siting from the areas not being recommended.

Response

The DOE is acutely aware of the apprehension that citizens of the States with potentially acceptable sites are experiencing. However, the announcements of the sites nominated and recommended for characterization had to await the completion of the final comparative evaluation of the sites and the publication of the final EAs, the multiattribute utility analysis of the nominated sites, and the recommendation by the Secretary of Energy of candidate sites.

C.2.1.1.4 Access to information

Many parties felt that opposition to the waste-management program results from misinformation about, and exaggeration of, the possible adverse effects associated with a geologic repository. They suggested that an improved program of public information and education would increase understanding and thereby the acceptance of the program. Several commenters recommended improved information programs because informed consent by the public depends on the availability of accurate, intelligible information. Others offered specific recommendations or complaints.

Issue

The DOE should establish a major information program, including (1) a constant flow of information that is timely, accurate, and easily understood and (2) more-frequent hearings and information sessions.

Response

Recognizing that public information is crucial to the success of the repository program, the DOE is committed to a thorough program of public participation. Its plans for public information and outreach are described in Chapter 4 of Part I of Volume I of the Mission Plan (DOE, 1985a). Valuable contributions to the development of these plans have come from States, affected Indian Tribes, and the public. The DOE will continue to seek information from interested parties on developing ways to identify public concerns, to provide information that addresses these concerns, and to involve the public in the decision process.

Issue

Some commenters alleged that the DOE will disclose information only under a formal request under the Freedom of Information Act.

Response

The DOE routinely shares program information with all of the affected parties and public and has specifically established information offices for that purpose. Information is disseminated through responses to letters, news releases, public announcements, and technical reports. Other vehicles for sharing information are exhibits, briefings, workshops, and meetings. In some cases, States and citizens have used the Freedom of Information Act as a means to obtain specific data or copies of letters.

Issue

Some persons felt that the DOE's ability to supply information to the public will be limited by the acceptance of defense waste in the repository.

Response

The acceptance of defense waste for disposal (see Section C.2.6.1) will not affect access to information or opportunities for public comment. Information on the quantities, characteristics, and environmental impacts of the defense waste is not classified.

Issues

Persons gathering information about the sites allegedly did not identify themselves as DOE employees or contractors.

Response

The DOE's policy is for its employees and contractors to clearly identify themselves when requesting information. The DOE or its contractors have not deliberately misrepresented the objectives of gathering information and would appreciate being informed directly of the specific dates and events when such misrepresentations were made.

C.2.1.2 Interactions with States, affected Indian Tribes, and local communities

C.2.1.2.1 Interactions with States

A number of commenters said that the DOE needs to set up better mechanisms for working with States and notifying them about the program. Others asked how the DOE intends to comply with existing State regulations. In addition, the DOE was asked to give Oregon affected-State status.

Issue

Commenters said that the DOE needs to develop better mechanisms for working with States, rather than simply assuming that States will agree to the DOE's suggestions.

Response

As explained in Chapter 4 of Part I in Volume I of the Mission Plan (DOE, 1985a), the establishment of mechanisms for working with States is an important objective of the DOE's institutional program. The DOE has worked closely with the representatives of every State that has a potentially acceptable site for the first repository. Futhermore, informal meetings with first-repository States and discussions with the second-repository States have been initiated. These meetings are intended to give the States additional opportunities to express their concerns and to participate in the development of the repository program. The DOE will continue to attempt to secure smooth working relationships.

Issue

Some States contended that they have not been notified in sufficient time, are not consulted, and their requests for information are not acknowledged or satisfied.

Response

Since the identification of the States with potentially acceptable sites for the first repository, the DOE has tried to consult with them on various siting issues. An example is the extensive consultation process on the siting guidelines, which involved both meetings with individual states and plenary sessions with the first- and second-repository States as well as the submittal of several drafts of the guidelines for State review. This process is described in the "Supplementary Information" for the DOE's siting guidelines (DOE, 1984c).

Although the DOE has made a concerted effort to provide full information to the States, it recognizes that information has not always been provided promptly. The DOE is trying to improve its capability to provide timely responses and is developing program data bases specifically for that purpose. If the States so desire, procedures for providing information may be specified in consultation-and-cooperation agreements.

Consultation and cooperation between the DOE and States is a dynamic process; it will not be limited to activities specified in the consultation-and-cooperation agreements. Further information about the consultation-and-cooperation process can be found in Chapter 4 of Part I of Volume I and in Chapter 3 of Part II in Volume I of the Mission Plan (DOE, 1985a).

Issue

One party recommended that the DOE conclude consultation-and-cooperation agreements with States to provide a formal structure for information and comment.

Response

To ensure that States are actively involved in the program, a formal consultation-and-cooperation process will be established through the written agreements provided for in Section 117(c) of the Act. High priority has been placed on concluding these agreements promptly. No formal consultation-and-cooperation agreements have yet been signed with any State, although negotiations have been initiated with the State of Washington.

In the absence of a consultation-and-cooperation agreement, the DOE will continue to provide both information and opportunities for comment.

Issue

Some commenters felt that the States should have been part of the EA process from the beginning and that the EAs could have benefitted from their involvement.

Response

The States with potentially acceptable sites were asked to participate very early in the EA process, starting with the scoping hearings held early in 1983. Subsequently, the DOE shared various drefts of the EAs with these States. The EAs did indeed benefit from the careful reviews performed by the States, and the DOE is grateful for their thoughtful comments.

Issue

Some States expressed concerns about the DOE's plans for compliance with State regulations in the siting process.

Response

The DOE intends to comply with the substance of any applicable State and local regulations that are consistent with its responsibilities under the Act.

The applicable regulations will be identified in consultation with the affected States and local governments. One of the objectives of the consultation process (see Section C.2.1.2) will be to identify which State or local regulations are applicable to a particular siting, construction, or operation activity and are consistent with the DOE's responsibilities under

the Act (i.e., do not include onerous reporting requirements or entail unacceptable delays). Another objective will be to agree on the mode or the extent of compliance. For the repository program, this consultation process is to begin immediately after the Presidential approval of the three sites recommended for characterization.

Issue

Several States oppose the siting of a repository within their borders.

Response

The Act outlines the process to be followed in the event that the Governor or the legislature of the State opposes the selection of a site in its borders for development as a geologic repository. The Act encourages the DOE to work closely with States in advance of recommendation and to develop a technical program that is credible to the State. However, the Act also provides the opportunity for the State to issue a notice of disapproval, with explanation, at the time that a site in that State is recommended for a repository (Section 116(b)(2)). Such disapproval can be overridden only by a joint resolution of Congress.

Issue

Some States felt that they should have the right to comment or concur on the DOE's plans without losing their rights to issue a notice of disapproval.

Response

The Act empowers a State with a site selected for a repository to submit a notice of disapproval to Congress. This right is not affected by previous comments on the site-selection process. Indeed, States are encouraged to submit comments throughout the process and to provide suggestions to improve the technical quality of the program.

Issue

Some comments urged that States be given the authority to monitor and review activities at every step of the process.

Response

The DOE has been encouraging States to participate in the siting process for more than 5 years through regular interactions with designated representatives. Consultation-and-cooperation agreements will allow each State and affected Indian Tribe to identify and describe in more detail the rights and responsibilities of the parties to each agreement. The agreements can include provisions for States to monitor and review program activities.

Issue

The State of Louisiana expects the DOE to honor the memorandum of understanding that grants the State veto power over any DOE plans for a repository. The agreement was signed February 27, 1978.

Response

The DOE has always maintained the position that the memorandum of understanding between the DOE and the State of Louisiana is valid consistent with the provisions of applicable law. However, if Vacherie Dome in Louisiana were clearly the best site, the DOE, being committed to implementing the Act, would recommend the site to Congress for development as a repository. At that time, Louisiana, like any other State, would have the opportunity to issue a notice of disapproval. The memorandum of understanding was signed before the enactment of the Act, which gave States the opportunity to veto the selection of a site within their borders; the Act supersedes prior agreements.

Issue

One commenter pointed out that a request by the Washington State legislature that granite be considered for the first repository was ignored by the DOE.

Response

The Act required the DOE to identify the potentially acceptable sites for the first repository within 180 days after the Act was passed. Studies of granite had not progressed to the point where the DOE could identify potentially acceptable sites in granite for the first repository. Granite is, however, being considered for the second repository.

Issue

The DOE was asked how it would respond to such State initiatives as Mississippi's statement that it is the policy of the State that radioactive waste may not be stored in Mississippi or the Oregon measure, passed by a ballot, requiring that there be no postclosure releases of radioactive material. Similarly, several comments from communities in Nevada said that their governing bodies had passed resolutions voicing opposition to waste transportation through these communities and to the siting of a repository in Nevada.

Response

The DOE intends to comply with all State regulations consistent with its responsibilities under the Act. However, in some instances State or local legislation that attempts to directly regulate the repository program may not be permissible under the U.S. Constitution.

Issue

According to some comments, Oregon should be recognized as an affected State and be accorded the rights and privileges of an affected State because of its proximity to the Hanford site and to the potentially affected Columbia River.

Response

Because none of the potentially acceptable sites is located within its borders, Oregon is not eligible under the Act for the rights and privileges of an affected State. Nonetheless, Oregon has participated actively in the site-selection process. It has appointed both a Hanford repository review committee composed of State officials and a citizens advisory committee to provide review from a public perspective. Recognizing the high level of interest among local citizens, the DOE held a public hearing on the EAs in Portland on March 11, 1985, and will continue to seek comment from the State of Oregon.

C.2.1.2.2 Interactions with affected Indian Tribes

Issue

Some commenters said that the DOE had not considered the religious attitudes of the Indians toward their land and the effects of site characterization on Indian lands. The Western Shoshone Indian Nation requested that it be declared an affected Tribe and that its tribal council be consulted before the start of any site-characterization activities at the Yucca Mountain site in Nevada.

Response

The DOE recognizes the importance of Indian religious and cultural resources and has specifically included proximity to significant Indian resources, such as major religious sites, as a potentially adverse condition in the siting guidelines.

The Western Shoshone Indian Nation requested affected-Tribe status because it claimed ownership of the land on which the Yucca Mountain site is located. The Federal Government's position that the Shoshone Tribe does not own the land was upheld by the Supreme Court (United States vs. Mary Dann and Carrie Dann, 105 U.S. Supreme Court 1058, February 20, 1985). The Tribe will be able to interact with the DOE through the public comment and interaction process.

C.2.1.2.3 Working with local communities

Issue

Several comments suggested that local communities should have more input and involvement in the siting process and in the development of the waste-management program.

Response

The DOE plans to continue working with both State and local governments during the siting process. The DOE intends to continue holding public meetings and outreach programs for local leaders and the general public in the

vicinity of potential sites and to keep State officials informed of such activities. Although not required by the Act, procedures for local-government representation could be included in consultation-and-cooperation agreements.

The DOE plans to encourage the participation of local community representatives in assessing the potential socioeconomic impacts of a repository, in developing plans to avoid or mitigate significant adverse impacts, and in preparing the impact-identification report that the State is to submit with its request for mitigation assistance. States will be encouraged to provide for and support such local participation.

The DOE is developing policies for providing financial assistance to support local participation in the program either through the State or, if necessary, by direct means. If the State government has established mechanisms for direct local participation and financial support for local efforts, the DOE will provide adequate funding to the State agency responsible for implementing local participation. Where the State government does not provide for direct local participation and support, the DOE will work directly with local representatives to assess potential impacts and may provide direct funding to units of local government.

The DOE meets frequently with local officials and other interested parties for exchanges of views and information.

DOE information offices in communities near the sites under consideration are walk-in sources of information. They provide answers to questions and educational materials. These offices also serve as libraries for public documents and short films, as well as places for the public to submit comments and questions about the program. (See Appendix B for the locations of these offices.)

Issue

Most people in Beatty, Nevada, want Yucca Mountain to be the selected site because of the economic benefits to the area, but the Governor responded negatively, overriding the desires of the citizens closest to the potential site.

Response

The DOE is aware that the interests of local citizens and the State may conflict, but will not intervene in intrastate political or economic disputes. Nonetheless, the DOE welcomes the input of local citizens in the waste-management program and will seek their participation through provisions in consultation-and-cooperation agreements with the States and through the socioeconomic impact assessments that will be conducted concurrently with site characterization.

C.2.1.2.4 Financial assistance

Several States and localities requested information about the distribution and availability of financial assistance. Some States complained that the grants they received for EA review were late; others requested funds to conduct independent technical studies. Several comments were concerned with grants to local communities or private organizations.

Issue

The DOE should provide information about the purpose, timing, and distribution of grants.

Response

The Act authorizes the DOE to provide financial assistance to States and affected Indian Tribes for (1) participation in the repository program and for facilitating effective public participation (2) participation in the consultation-and-cooperation process (see also Section C.2.1.2.1); and (3) the mitigation of socioeconomic impacts. To date, all six States considered for the first repository and three affected Indian Tribes have been awarded grants for participation in the program. In fiscal years 1983 and 1984 a total of $2,157,301 and $4,590,356, respectively, was awarded. Grants also have been extended to the 17 States being considered for the second repository to enable them to participate in site screening. In fiscal years 1983 and 1984, these awards totaled $930,376 and $2,942,186, respectively. Grants allow States and affected Indian Tribes to review and comment on documents, like the technical reports, the siting guidelines, the draft EA, and the Mission Plan and to participate in program meetings and workshops.

The nature and level of grants for the mitigation of socioeconomic impacts will be largely based on the socioeconomic-impact reports that States or affected Indian Tribes will submit and on discussions and negotiations between the DOE and States, affected Indian Tribes, and communities. Both financial and technical support will be provided for the development of such reports. This support can assist States and affected Indian Tribes in examining the public health and safety, environmental, social, and economic impacts of a repository. Also provided for the mitigation of fiscal impacts will be grants equal to the taxes that would be collected if the repository were a commercial project. (See Section C.2.1.5.1 for comments and responses on the mitigation of socioeconomic impacts.)

The DOE will work with States, affected Indian Tribes, and localities to develop impact-mitigation plans in response to the siting of a repository. These plans will address ways to augment community services as well as ways to minimize socioeconomic disruptions and maximize the benefits of new economic activity related to program activities.

Issue

Some State grants for the review of the draft EA were allegedly late, and they were smaller than requested.

Response

All requests for financial assistance from States or affected Indian Tribes are reviewed for conformance to the DOE guidelines on financial assistance. These guidelines ensure compliance with the requirements of the Act as well as consistency and equity among States and Indian Tribes. Once the DOE has reviewed the request, negotiations with the State can begin. Sometimes these negotiations can be lengthy. Delays have occurred when a request lacked key information or when States requested funds for activities outside the scope of the Act or the DOE financial assistance guidelines.

The amount of a grant is decided case by case, but each request is evaluated against similar requests from other States and Indian Tribes. Once the DOE obtains all the information necessary and discusses it with the State, adequate funding levels are determined and awarded. Interim funding is often extended if a grant is delayed.

Issue

Several States asked for funds to conduct independent technical assessments, both for developing new information and for checking the DOE's analyses. Some States alleged that requests of this type were turned down by the DOE.

Response

The Act requires the DOE to provide financial assistance to States or affected Indian Tribes "to engage in monitoring, testing, or evaluation activities with respect to site characterization programs with respect to such site." The DOE's guidelines on financial assistance also extend this funding to phase II (i.e., States and Tribes that have potentially acceptable sites, but have not yet been notified of their status as candidate sites). The DOE had interpreted the Act to mean that activities thus funded should focus on independent monitoring, testing, and evaluation of DOE data.

On December 2, 1985, the Court of Appeals for the Ninth Circuit ruled that the DOE is required under the Act to fund States and Indian Tribes to conduct pre-site characterization studies involving primary data collection if such studies "would be essential to an informed statement of reasons explaining why [the State/Indian Tribe, if on tribal land] disapproved the recommended repository sites" and if the ability of the studies to contribute to the statement of reason "depends on their being initiated prior to site characterization" (State of Nevada vs. Herrington, (No. 84-7846). The DOE is revising its financial assistance guideline in accordance with this ruling.

Issue

Local communities want to share in the grants available under the Act.

Response

Financial assistance to local governments is addressed in Section 4.12 of Part I, Volume I, of the Mission Plan (DOE, 1985a):

> The DOE will continue to provide grants and other financial assistance, as appropriate, to States, affected Indian Tribes, and others to facilitate effective public participation in the program. In addition, the DOE will seek ways to encourage the involvement of other interested parties through grants and other technical or financial assistance.... The DOE will also seek ways to facilitate effective participation by units of general local government that may be affected by program activities.

As already mentioned, the DOE is developing policies for providing financial assistance to support local participation in the program. If the State government has established mechanisms for direct local participation and financial support for local efforts, the DOE will provide adequate funding to the State agency responsible for implementing local participation. Where the State government does not provide for direct local participation and support, the DOE will work directly with local representatives.

Issue

One party said that requests by a private organization for funds to develop balanced information have been denied by the DOE.

Response

The DOE provides financial assistance to national and regional organizations that represent an extension of State and Tribal interests to facilitate their participation in the waste-management program. The organizations that have received such grants are the National Congress of American Indians, the National Conference of State Legislatures, the Western Interstate Energy Board, and the Southern States Energy Board. Where such organizations are likely to improve coordination or the involvement of affected parties, future funding will be provided.

C.2.1.3 Working with other Federal agencies

A number of commenters addressed the participation of other Federal agencies in the repository program. Most of them were interested in the roles of the Nuclear Regulatory Commission and the Department of Defense. (See also Section C.2.2 for comments and responses about the regulations of Federal agencies.)

Issue

A commenter alleged that too many Federal agencies are involved in the siting process. Another suggested that it is vital that agencies whose primary concern is public safety be involved in developing the repository.

Response

The management of spent fuel and high-level waste requires the participation of many agencies of the Federal Government because of their regulatory responsibilities. The Act assigns lead responsibility to the DOE, but significant roles are expected for the following other agencies:

- The Nuclear Regulatory Commission.
- The Environmental Protection Agency.
- The Department of Transportation.
- The Bureau of Indian Affairs.
- The Bureau of Land Management.

- The U.S. Geological Survey.
- The U.S. Army Corps of Engineers.
- The Advisory Council on Historic Preservation.

More-detailed information about the roles of these agencies can be found in the DOE's Project Decision Schedule (DOE, 1985b).

Issue

Information about the involvement and responsibilities of the Nuclear Regulatory Commission and the Department of Defense was requested by several commenters.

Response

The DOE must obtain from the Nuclear Regulatory Commission (NRC) concurrence on the siting guidelines, a license to construct the repository, a license to receive and possess the waste at the site (i.e. to operate the repository), and subsequent license amendments for the closure and decommissioning of the repository. The NRC also will issue site-characterization analyses based on the DOE's site-characterization plan for each site approved for characterization. The NRC licensing process is based on the procedures and the technical criteria issued as 10 CFR Part 60 (NRC, 1983). The objective is to implement the standards set by the Environmental Protection Agency for waste isolation in geologic repositories and thus provide reasonable assurance that geologic repositories will isolate the waste for at least 10,000 years without posing undue risk to public health and safety. Since 10 CFR Part 60 was issued before the Act was passed, the NRC is revising it for compliance with the Act; 10 CFR Part 60 may also change in response to the Environmental Protection Agency's final environmental standard (40 CFR Part 191), which was published on September 19, 1985 (EPA, 1985).

The Department of Defense is involved in the program through the U.S. Army Corps of Engineers, which is advising the DOE on the acquisition of private lands.

Issue

One party stated that the DOE should complete consultation with the U.S. Fish and Wildlife Service on threatened and endangered species before proceeding with site recommendation for characterization.

Response

The DOE has been communicating with the U.S. Fish and Wildlife Service on designated critical habitats and the possibility of threatened or endangered species occurring at any of the sites. In response to specific concerns about the presence of protected species at the Davis Canyon site, the DOE participated with interested agencies and individual experts in a field survey conducted in July 1985. When a site has been selected for repository development, the DOE will enter into a formal consultation with the Service. Until then, the DOE will remain in contact with the Service and with State agencies regarding protected species.

C.2.1.4 Working with other countries

Issue

Because the disposal of radioactive waste is an international problem, the DOE should seek technical assistance and independent scientific analyses from other nations that do not have a vested interest.

Response

It has long been U.S. policy to cooperate with other nations in developing waste-management technology. As described in the Mission Plan (DOE, 1985a, Volume I, Part I, Chapter 5), the DOE actively participates in international cooperation and information exchange through bilateral agreements, multinational activities, and international forums and programs. These activities are part of the DOE's overall program under current agreements with Belgium, Canada, France, the Federal Republic of Germany, Japan, Sweden, Switzerland, the United Kingdom, the Commission of European Communities, the International Atomic Energy Agency, and the Nuclear Energy Agency (NEA) of the Organization for Economic Cooperation and Development. The DOE is currently most active in joint projects with Canada, Germany, Sweden, and the NEA. These projects include (1) an underground crystalline-rock research laboratory in Canada; (2) ongoing tests in the Asse salt mine in Germany; and (3) tests in the Stripa mine in Sweden, which are being performed in crystalline rock.

C.2.1.5 Socioeconomic impacts

This section covers two topics that drew many comments: (1) socioeconomic impacts and their mitigation and (2) the acquisition of laws and effects on property values.

C.2.1.5.1 Socioeconomic impacts and their mitigation

Many comments, from the States, local communities, and the public, addressed various issues related to the socioeconomic impacts of a repository and their mitigation. Some of them alleged that the DOE had not adequately involved local communities in assessing the effects and did not understand local values. Others were concerned about the timing and adequacy of mitigation grants.

Issue

Some comments said that the DOE has not adequately involved the citizens of local communities in evaluating the effects of a repository on local people, businesses, and services.

Response

The DOE will conduct socioeconomic studies that will involve local communities and will collect information from local sources (schools, local officials, etc.). These studies will be conducted concurrently with site characterization and will be much more detailed than the preliminary assessments included in the EAs.

Some socioeconomic impacts, such as increased demands for public services, will affect local governments directly. For this reason, the DOE will encourage the participation of local governments in the preparation of the socioeconomic-impact reports as early and as fully as possible. The DOE will encourage the States to allocate of a portion of their grant to affected localities.

Issue

The DOE allegedly does not understand and appreciate the values of the local communities at the sites that are being considered.

Response

After the President approves the sites recommended for characterization, the DOE will begin detailed studies of the demographic and social and economic conditions in local communities, collecting information from local sources. These studies will examine the effects of the repository on the local economy, community services, housing, and the like. Transportation-related effects on local communities will also be analyzed. Local communities will continue to have opportunities to be directly involved in the assessment of socioeconomic effects, and their officials will be asked to provide information not only about local economic and social conditions but also about the attitudes of the community.

Issue

The EAs should include more information in Chapter 5 about the financial impacts of site characterization and repository development on local communities and the grant programs applicable to individual sites.

Response

Chapter 5 of the EAs has been revised to provide more-detailed information about socioeconomic effects. Information about grants is available in the Mission Plan (DOE, 1985a, Volume I, Part I, Chapter 4).

Issue

Some persons said that there is no guarantee that the local economy and local employment picture will improve because of the presence of a repository. On the other hand, one commenter noted the economic benefits that could accrue from a repository nearby and wanted assurances that the residents of the local community would have job opportunities. He said that the local business community saw the repository as being beneficial as long as the "boom-and-bust" cycle can be broken.

Response

Although there may be no guarantee of an improvements in the employment situation, such improvements are likely because of improvements in the local economy. Federal procurement law requires the DOE to advertise for, accept bids from, and hire contractors on the basis of competitive bids. However, the DOE will make available to local businesses complete descriptions of the required contract work and will meet with local leaders to describe the project. Where possible, the DOE and the general site contractor may divide contracts into smaller subcontracts to facilitate bidding by local contractors. This approach is being successfully used for the Waste Isolation Pilot Project in New Mexico. Furthermore, local residents may find employment with any outside contractors that may be hired. The DOE will also widely publicize locally business and job opportunities and work with community leaders to provide contract-procurement workshops and vocational training programs.

The DOE plans to take mitigative measures to reduce the impacts of the "boom-and-bust" cycle--the buildings and eventual reduction in local populations that will result from siting a repository in a rural area.

Issue

Some States and communities indicated that mitigation efforts and funds must precede or be concurrent with program activities to avoid adverse impacts. In particular, some potentially affected communities expressed concern that the need to improve community services may occur before impact-mitigation funds are distributed.

Response

The Act does not provide for impact-mitigation funds before repository construction begins, but the Act does allow grants equal to taxes to be provided to units of general local government beginning with site characterization. The DOE will therefore work with States, affected Indian Tribes, and local governments to minimize or avoid adverse impacts and to identify mechanisms for the timely provision of assistance within the authorization provided by the Act. Financial assistance will be provided to States and affected Indian Tribes throughout the construction and operation phases to enable them to mitigate repository-related impacts.

Issue

Some parties were concerned that the grants will be cut and thus will not provide adequate assistance (i.e., the grants will not be equal to the amount lost in the reduced assessments of the value of surrounding land and will not make up for taxes lost as a result of business relocations).

Response

The levels of impact-mitigation funding will be based on assessments of potential impacts, in which local communities will be encouraged to participate. The funding levels agreed on will be based largely on the socioeconomic-impact reports that will accompany the requests of States and

affected Indian Tribes for financial assistance. Included in the impact-mitigation assistance will be grants equal to taxes.

In general, applications for grants will be submitted by the State or the affected Indian Tribe to the appropriate DOE Project Office. The DOE will process these applications as quickly as possible under Federal procurement regulations. When agreement on terms has been reached by the DOE and the State or affected Indian Tribe, the grant will be awarded.

Issue

Commenters requested that the DOE furnish temporary housing for transient workers during site characterization.

Response

With the exception of the Davis Canyon site, adequate housing is expected to be available in the vicinity of the nominated sites during site characterization. The DOE may consider providing temporary housing at the Davis Canyon site if the site is recommended and approved for characterization.

C.2.1.5.2 Land acquisition and property values

The subject of land acquisition and property values was raised by many commenters, who expressed concern about decreases in property values, fair compensation for land acquired from private owners, the uncertainty resulting from a long site-selection process, and similar issues.

Issue

A number of persons expressed concern about the effects of site characterization and repository development on property values. Some made suggestions about the approach to compensation; others wanted to know what the DOE considers reasonable compensation. Some said that the value of property near a site being considered for a repository has already decreased and will continue to plummet as the process continues, but that compensation should be based on the nondepreciated land values that could be expected without the repository project.

Response

The DOE recognizes that some people believe that the value of some lands at or near a potential repository site may have decreased, but there is no concrete evidence of such decreases. However, for the sites that are not recommended for characterization, it can reasonably be expected that property values, if decreased, will return to normal once the site is removed from consideration. At the sites recommended for characterization, private land may be leased or purchased for the characterization phase. If there is private land at a site selected for a repository, the DOE will acquire the land through purchase, at fair market value.

All land-acquisition activities will be performed in accordance with the Uniform Relocation Assistance Act. The DOE will ask for assistance from the U.S. Army Corps of Engineers in the acquisition process because of its extensive experience. The Corps will assess the value of the land, basing the assessments on the value of land that is similar but outside the immediate area. This approach will ensure that the assessment is not reduced by any land-value decreases that may result from the repository project.

Issue

One commenter suggested that a one-mile buffer zone should be established around the site, within which owners could choose to keep their property with compensation from the DOE for its devaluation or sell to the DOE under the same terms as those offered for land at the site.

Response

Land values will be assessed during the studies that will be conducted concurrently with site characterization. At this time the DOE has made no decision about establishing a buffer zone or how compensation in a buffer zone will be handled. If the siting of a repository causes a clearly demonstrated adverse effect on the values of the surrounding land, impact-mitigation funds may be made available as compensation.

Issue

Some felt that landowners who have already sold property at prices depressed by repository siting should be compensated for their losses.

Response

The DOE will examine case by case any claims from landowners who feel that they have received a depressed price for their property because the land is or was being considered for a repository.

Issue

The DOE was asked to issue a specific statement explaining what it considers reasonable mitigation and compensation for relocation.

Response

In providing relocation assistance, the DOE will follow the procedures specified in the Uniform Relocation Assistance Act. Information about relocation procedures has been distributed at meetings of landowners in the Deaf Smith site and is available from the DOE.

Issue

Some commenters urged the DOE to decide on a site as soon as possible because otherwise people cannot make decide about making necessary improvements to their property and do not know whether their lives will be disrupted. One party said that the DOE should "stop casting a cloud" on land titles near potential sites. Another commenter said that the DOE should develop a mitigation policy of indemnifying local citizens against uncertainty.

Response

The siting of a repository requires extensive and detailed study to collect sufficient information and must follow the process outlined in the Act. Therefore, it is not possible for the DOE to decide now which site will be selected. This choice will be made several years from now. However, the DOE believes that landowners should not base decisions about improvements to their property on the anticipation of a repository. If the land is acquired, landowners will be compensated at fair market value, including any improvements that have been made.

Issue

The DOE should arrange an exchange of land with the Bureau of Land Management rather than condemning private farmland for the repository.

Response

The DOE recognizes that the acquisition of private land may have significant impacts on its owners and will follow the provisions of the Uniform Relocation Assistance Act. However, in selecting a site for a repository, the ability of the site to contain and isolate the waste is more important than current land use.

C.2.2 LEGAL AND REGULATORY ISSUES

Most of the issues raised in comments on legal and regulatory matters were concerned with the EPA standards for geologic disposal. Other issues included emergency response responsibilities, liability for accidents, and the applicability of Federal mining regulations.

Issue

Several commenters asked which Federal agencies set standards for radioactive-material releases from the repository.

Response

The Act (Section 121(a)) directs the Environmental Protection Agency (EPA) to develop standards for protecting the general environment from radioactive-material releases from repositories. Responsibility for implementing the EPA standard is assigned to the Nuclear Regulatory Commission (NRC).

The EPA standards were issued in final form as Title 40 of the Code of Federal Regulations, Part 191 (40 CFR Part 191), on August 15, 1985; they were published in the Federal Register on September 19, 1985 (EPA, 1985), and became effective on November 18, 1985. The NRC criteria for implementing these standards were issued as Title 10 of the Code of Federal Regulations,

Part 60 (10 CFR Part 60). They were published on June 21, 1983 (NRC, 1983). Since 10 CFR Part 60 was issued before the Act was passed, the NRC is revising it for compliance with the Act; 10 CFR Part 60 may also change in response to the above-mentioned final EA standard (40 CFR Part 191).

Issue

A number of comments pertained to the postclosure safety of the repository. Some of them asked what levels of radiation are harmful and who determines what levels are not harmful and what is considered to be an acceptable death rate. One commenter objected that, in the absence of individual dose standards, the EPA's population standard is unacceptable.

Response

According to the National Council on Radiation Protection and Measurements (1974), the lowest radiation doses that produce evidence that a person has been affected by radiation are in the range of 75 to 125 rem, which is the "minimal dose likely to produce vomiting in about 10 percent of people so exposed." The individual dose limits set by the EPA for the repository are more than 1,000 times lower. During repository operations, no member of the general public may receive more than 25 millirem (0.025 rem) to the whole body, 75 millirem (0.075 rem) to the thyroid, and 25 millirem to any other critical organ; during the first 1,000 years after closure, the limits are 25 millirem the whole body or 75 millirem to any critical organ. The EPA estimates that, for the first 10,000 years, releases from a repository containing 100,000 MTU of waste would cause no more than 1,000 premature deaths from cancer, or an average of no more than one death every 10 years. The projections for actual repositories are expected to be about 10 times lower. For comparison, it is estimated that about 6,000 premature cancer deaths per year are caused by natural background radiation (radiation from cosmic rays, the rocks in the earth, etc.).

In its final standards, 40 CFR Part 191, the EPA has included individual protection requirements (40 CFR 191.15), which are expressed as the maximum permissible individual dose for 1,000 years after repository closure.

Issue

A few commenters questioned the 10,000-year standard for waste isolation.

Response

The 10,000-year standard was chosen by the EPA because at 10,000 years after repository closure the risk posed by the repository to public health and safety is comparable to the risk from unmined uranium ore.

Issue

Some parties expressed concern that the final EPA standards had not been promulgated at the time the draft EAs were issued.

Response

As already mentioned, the final EPA standards were published on September 19, 1985. These final standards were used in revising the EAs.

Issue

One commenter asked who would be responsible for responding to emergencies during repository operation and waste transportation.

Response

The DOE is responsible for emergency preparedness and response at the repository, as specified in DOE Order 5500.3 ("Reactor and Non-Reactor Facility Emergency Planning Preparedness, and Response Programs for Department of Energy Operations").

Responsibility for emergency preparedness and response in the event of a transportation accident involving radioactive materials is spread among the DOE, the carrier of the waste, and the Federal, State, and local governments. The carrier of the waste has the initial responsibility for "onsite" activities to minimize the hazards to life and property from a possible spill of radioactive materials. State and local governments have the primary responsibility for emergency measures that must be undertaken to protect persons, property, and the environment on lands within the State's boundaries from the threat of harm from an accident involving the transportation of nondefense radioactive waste. Upon request by State or local authorities, the DOE and the Federal Emergency Management Agency will provide assistance in responding to emergency situations. (The DOE's personnel will also respond to emergency-assistance requests from private persons and companies, including transportation carriers.)

In regard to emergency response at the Hanford and the Yucca Mountain sites which are Federal nuclear reservations, any onsite accidents would be the DOE's responsibility, not that of the State or the local jurisdiction.

Issue

Commenters questioned the extent of the Federal Government's liability in case of a transportation accident or an accident at the repository in light of the Price-Anderson Act, which limits coverage to $570 million. They claim that the sum is inadequate and that the Federal Government must assume 100 percent liability in the case of an accident. The failure to address this indicates the government's unwillingness to realistically address the risks associated with the repository.

Response

The Price-Anderson Act provides liability for damages suffered by the public in the event of nuclear accidents at certain facilities, including DOE contractor-operated facilities. The Price-Anderson Act is now under Congressional review, and the Secretary of Energy has made recommendations for extending liability coverage for activities carried out under the Act. (See Appendix A of the EAs for a more detailed discussion.)

Issue

One commenter wanted to know whether DOE contractors are subject to the Mine Safety and Health Act.

Response

The DOE is not subject to the requirements of the Mine Safety and Health Act but intends to comply with its provisions in the repository program. The decision to construct two exploratory shafts (rather than one) at each site recommended for characterization was based partly on compliance with this regulation.

Issue

One commenter asked whether a repository would be excluded from "public health scrutiny" under the Atomic Energy Act of 1954.

Response

Under the Atomic Energy Act of 1954, all facilities in the commercial nuclear fuel cycle, including repositories, are subject to licensing by the NRC, and for this purpose the NRC has promulgated regulations whose objective is to protect the health and safety of the public. For a repository, NRC licensing is also required by the Act, which also stipulates that geologic disposal must be safe and environmentally acceptable.

C.2.3 PROGRAM MANAGEMENT, COSTS, AND SCHEDULES

Included in the comments on the draft EAs were a number of comments on program management, costs, and schedules. The DOE's schedule for repository siting and development was of concern to many parties, most of whom urged the DOE not to sacrifice excellence for schedule.

C.2.3.1 Program management

The comments on program management were concerned mainly with the potential for conflicts of interest in DOE contractors, peer review of the technical program, the need for a program plan, and assurance that DOE contractors will take the necessary measures to protect the environment.

C.2.3.1.1 Conflicts of interest

Issue

Some commenters stated that contractors with a high financial stake in repository development should not perform analyses for site evaluation. Many commenters suggested that, out of the wide range of available data, the contractors choose to analyze only the data that favorably depict the site. The DOE should either employ different contractors for the analysis of site

data or allow the current contractors to continue with site-data analysis of with the stipulation that they will not be considered for prime-contractor positions for repository construction or operation.

Response

Conflict of interest is a potential problem in any large program where individuals and organizations may have a long-term vested interest in the continuation of the program. However, the repository program is divided into several major phases, and the contracts now in effect are limited to the current phase only (development and evaluation). Furthermore, the contracts of the major support contractors are opened for bids every 5 years. Because of the different skills and experience that will be required for repository construction and operation, many of the contractors for these phases are likely to be different from those involved in site evaluation.

There is little likelihood of biased analyses because the analyses conducted for site evaluation are reviewed by the DOE Project Offices, peer review groups, independent experts hired by other DOE organizations (e.g., the Office of Environmental Compliance, which is under the Assistant Secretary for Environment, Safety and Health), other Federal agencies, and technical experts hired by the States. Documents important to the siting process, such as the draft EAs and the environmental impact statement, are submitted for review by the public. The draft EAs were also reviewed by the Nuclear Regulatory Commission, the U.S. Geological Survey, and the National Academy of Sciences. Finally, the ultimate decision on the suitability of a candidate site will be made by the Nuclear Regulatory Commission, which is continuously reviewing the DOE's work through its staff and consultants.

C.2.3.1.2 Technical peer review

Issue

Several comments referenced a report by the General Accounting Office (GAO) report, issued January 10, 1985, that concluded that the program lacks consistent peer review and that this lack may ultimately subject the DOE's technical analyses to challenges and revisions.

Response

Peer review is an important part of the process by which a repository is sited, constructed, and operated. Peer-review groups have already participated in the early stages of the process. For example, the DOE has assembled a group of independent experts, the Performance Assessment National Review Group, to examine the performance-assessment work of the first repository projects. As the repository program continues, the OCRWM expects to assemble similar groups to examine other parts of the work. Other DOE organizations--for example, the Office of Environmental Compliance--also use independent experts in their review of work sponsored by the OCRWM; their peer reviews are significant contributions to the program. The DOE Project Offices also employ peer review groups in many of the technical aspects of the program.

The States in which a repository may be located also provide independent peer reviews; some of the funds distributed by the DOE as financial assistance to the States are used for that purpose.

Another source of independent peer review is the National Academy of Sciences. This organization has contributed a review of the draft EAs and is expected to contribute further reviews in the future.

The ultimate peer review of the program will be provided by the Nuclear Regulatory Commission. Through its staff and consultants, the Commission will continuously review the DOE work, as it already has the siting guidelines and the draft EAs.

C.2.3.1.3 Need for program plan

Issue

A commenter said that the DOE needs a program plan for waste disposal.

Response

The DOE issued the draft Mission Plan for the Civilian Radioactive Waste Management Program in April 1984 (DOE, 1984a) and the revised plan in June 1985 (DOE, 1985). The Mission Plan describes the objectives and strategies of the program, summarizes current program plans, and summarizes the technical status of the program.

C.2.3.1.4 Protection of the environment

Issue

Some commenters said that government contractors will not spend the money to ensure that the environment is protected during the construction of the repository.

Response

The DOE will oversee all construction activities to ensure compliance with Federal environmental regulations. An environmental plan that specifies procedures to be followed will be prepared for the construction project. Potential impacts are discussed in the EAs. A more comprehensive analysis will be presented in the Environmental Impact Statement, which will also discuss measures for mitigating any significant adverse impacts.

C.2.3.2 Program costs

Several commenters inquired about the total cost of repository development, who was responsible for these costs, and whether the cost of defense-waste disposal would be borne by the Federal Government.

Issue

Commenters asked about the total costs of repository development and waste-management activities.

Response

The costs of the Civilian Radioactive Waste Management Program are divided into four major categories: (1) development and evaluation; (2) geologic repository construction, operation, closure, and decommissioning; (3) transportation; and (4) storage. Estimates of costs for each category depend on the assumptions about such variables as the quantity of waste to be emplaced, the minimum "age" of the waste, the host rock of each repository, the repository design receipt rate, the beginning operation date for each repository, the technology used for waste-transportation casks, and the basis for expressing costs. The figures discussed below were taken from Chapter 10 of Part II of Volume I of the Mission Plan (DOE, 1985a), which discusses in more detail the total costs of managing commercial radioactive wastes.

The costs of development and evaluation (D&E) include all the siting, repository design, testing, regulatory-compliance activities, and institutional activities associated with the repository, waste transportation, and monitored retrievable storage (MRS). The current reference case for total D&E costs is $7.8 billion (in constant 1984 dollars).

Repository costs include the costs of construction, operation, closure, and decommissioning. Depending on the host rock, the costs of the first repository may vary from $6.8 billion to $10.7 billion (in constant 1984 dollars) for the reference cases. The repository costs of the second repository may vary from $5.8 billion to $6.1 billion (in constant 1984 dollars).

Waste-transportation costs will be derived from a unit charge for transportation cask use, shipping, and security for each potential transportation pathway. The pathways include transportation from the commercial reactors to each repository, from reactors to an MRS facility (if such a facility is approved by Congress and developed), and from an MRS facility to each repository. The total transportation cost is the sum of these three transportation unit costs. Estimates for transportation costs for the reference cases vary from $3.3 billion to $5.1 billion.

Current planning assumptions for an MRS facility estimate the costs at between $1.6 and $2.6 billion, or about 5 to 11 percent of the estimated costs of a waste-management system without an MRS facility.

Issue

Commenters asked who is responsible for the costs incurred in constructing the repository. How will these costs be covered and who will pay for the program if the nuclear power plant industry dies out before the closure of the repository?

Response

The Act requires the owners and generators of commercially generated radioactive waste to pay the full costs of its disposal and established a Nuclear Waste Fund to ensure the full-cost-recovery funding of the waste-management program. This Fund receives revenues from an adjustable fee charged quarterly for all electricity generated by commercial nuclear facilities beginning April 7, 1983, as well as a one-time fee, estimated to produce a total of $2.3 billion, for radioactive waste produced before April 7, 1983. The revenues generated from these two sources, in addition to interest earned from the investment of any surplus in U.S. Treasury securities, are deposited in the Fund, and disbursements are made to cover costs as the program progresses.

Forecasts of future nuclear power generation are incorporated into the management of the Fund. Representative scenarios are presented in DOE documents describing the adequacy of the fund (DOE, 1985c) and analyzing the total-system life-cycle cost for the program (DOE, 1985d).

Issue

Some commenters wanted to know who is responsible for paying for the disposal of defense high-level waste?

Response

As stipulated in the Act, the Federal Government will cover all costs of defense-waste disposal through contributions to the Nuclear Waste Fund (see also Section C.2.6.1).

Issue

Some commenters noted the need for an independent waste-fund audit.

Response

As required by the Act, the Comptroller General of the United States makes annual audits of the Nuclear Waste Fund and submits reports to Congress. An independent audit is also performed for the DOE by a certified public accounting firm. The latest audit covered the period from January 7, 1983 to September 30, 1984, and the results are summarized in the DOE's Annual Report to Congress (DOE, 1985e).

C.2.3.3 Schedule

Many commenters expressed concern that the DOE's schedule for repository siting and development would adversely affect the selection of sites, the consultation process, and the adequacy of the technical data.

C.2.3.3.1 Dependence of site-selection process on schedule

Many comments contended that the mandated repository schedule is driving the site-selection process. Commenters felt that the DOE's schedule is inadequate in that it is an unrealistic list of dates dictated by political decisions rather than by sound geologic site-screening criteria. They requested that the date for the final site selection be postponed and the number of potential repository sites be increased. (See also Section C.3.4.4 for comments on related issues.)

Issue

A number of commenters requested that the date for the final site selection be postponed and the number of potential repository sites be increased.

Response

Being committed to a schedule that will lead to the receipt of waste in 1998 for emplacement in the first repository, the DOE will make every effort to meet intermediate milestones, such as the selection of the site for the first repository, without sacrificing technical excellence.

As explained in Section C.3, the DOE believes that the number of potential repository sites is adequate and in compliance with the requirements of the Act.

Issue

A commenter requested that the DOE recommend that Congress amend the Act to reduce the time constraints in order to allow sufficient time for the entire process.

Response

The DOE recognizes that its schedule is success oriented, but it is also achievable. Hence, a recommendation for an amendment of the Act is not needed.

C.2.3.3.2 Effects on the consultation process

Issue

One commenter said that the DOE could not stay on schedule and conduct a satisfactory program of consultation and cooperation with States and affected Indian Tribes.

Response

As discussed in detail in Chapter 4 of Part I of Volume I of the Mission Plan (DOE, 1985a), the DOE maintains an ongoing program of consultation and information exchange with the States and affected Indian Tribes. The scope of this program is not determined by the overall project schedule. The DOE will

seek to enter into negotiations with States for written consultation-and-cooperation agreements(s) within 60 days after the approval of sites for characterization.

Issue

Some commenters stated that the DOE's tight schedule means closed decisions and no public input.

Response

Recognizing that the schedule is very tight, the DOE is nonetheless fully committed to a process of open and active consultation with all interested parties (see DOE, 1985a, Chapter 4 of Part I of Volume I). Closed decisions are not in the DOE's interest because the schedule can be met only if the States, Indian Tribes, and the public are confident that the siting decisions are sound.

C.2.3.3.3 Effects on the adequacy of technical data

Many comments about the schedule stated that it did not allow time for adequate scientific study and hence might compromise the site-selection process. One commenter doubted that 5 years was enough time for data gathering during site characterization. Conversely, another party noted that the characterization process should follow the mandated schedule so as not to increase costs.

Issue

Many comments objected that the schedule does not allow sufficient time for adequate scientific study.

Response

The DOE cannot meet the schedule without adequate scientific study because it will not be able to obtain an NRC license unless it can demonstrate that the site can meet the standards of the EPA and the technical criteria of the NRC. Furthermore, the DOE believes that it can meet the schedule without sacrificing technical excellence.

Issue

The reference schedule does not allow adequate scientific analyses during site characterization.

Response

The DOE is confident that the schedule for site characterization is adequate.

Detailed plans for the studies to be conducted will be included in the site-characterization plans, which will be submitted to the Nuclear Regulatory Commission, the U.S. Geological Survey, the States, and the public for review.

The Mission Plan (DOE, 1985a) outlines four alternative cases for site characterization in addition to the reference case. Each case identifies and discusses potential delays. The measures that could be used to compensate for these delays are discussed in the draft Project Decision Schedule (DOE, 1985b).

C.2.4 TRANSPORTATION, RETRIEVABILITY, AND SECOND REPOSITORY

C.2.4.1 Transportation

This section presents general, rather than site-specific, comments on transportation and the analyses presented in Appendix A; these comments are national in scope.

Most of the site-specific comments on transportation pertain to the local and regional transportation impacts of repository operation and are discussed in Section C.7.3. Typical examples of the repository-related transportation comments covered in Section C.7.3 include (1) the impacts of constructing repository access routes, (2) the transportation impacts of repository operation on the local and regional population and environment, (3) the suitability of candidate local and regional transportation routes, and (4) the compliance of the site with the conditions of the transportation guideline.

Many commenters said that the Appendix A should contain more-detailed analyses (e.g., route-specific analysis) and more background information (e.g., legislative and regulatory history). The more-detailed analyses will be performed after the necessary data are collected during site characterization; they will be reported in the environmental impact statement that will accompany the recommendation of one site for development as a repository.

The information provided in the EAs is believed to be sufficient to support preliminary findings on the conditions of the transportation guideline and to discriminate among the sites and is in accordance with the requirements of the siting guidelines (DOE, 1984c). For transportation, the types of information that should be used in nominating sites as suitable for characterization are listed in Appendix IV as follows:

- Estimates of the overall cost and risk of transporting waste to the site.
- Description of the road and rail network between the site and the nearest interstate highways and major rail lines; also description of the waterway system, if any.
- Analyses of the adequacy of the existing regional transportation network to handle waste shipments; the movement of supplies for repository construction, operation, and closure; the removal of nonradioactive waste from the site; and the transportation of the labor force.

- Improvements expected to be required in the transportation network and their feasibility, cost, and environmental impacts.
- Compatibility of the required transportation-network improvements with the local and regional transportation and land-use plans.
- Analysis of weather impacts on transportation.
- Analysis of emergency-response requirements and capabilities related to transportation.

C.2.4.1.1 Cost and risk estimates for transportation

Issue

The transportation cost and risk analyses in the draft EAs were generally considered inadequate by many commenters. Specifically, four main inadequacies were identified: (1) the methods and inputs used were not valid; (2) food-chain and water pathways were overlooked; (3) centroids (i.e., points representing the geographical setting of groups of reactors) were used in lieu of actual reactor locations; and (4) route-specific data were not used.

Response

The DOE believes that the methods and input to the cost and risk analyses are valid and that the results provide an adequate basis for comparing the transportation impacts that would result from shiping waste to each of the sites. However, as discussed below and in Sections C.2.4.1.3, C.2.4.1.4, and C.2.4.1.7, some changes in the methods and input were made. The results of these changes are found in Appendix A.

The RADTRAN II radiological risk code was modified to include the food chain, though the overall impact of this exposure pathway is minor. This change is reflected in the results presented in Appendix A. The relative importance of water pathways can be inferred from similar analyses developed for studies of the risk from nuclear reactors. These studies have examined hypothetical accidents with large radionuclide releases to the environment and have shown that water pathways on the average are small contri- butors to the total health risk from accidents. However, the consequence analysis included in Appendix A does evaluate the radiation doses received from the water pathway. (See also Section C.2.4.1.3.)

In the draft EAs, which considered shipments from reactors to repository only, the sensitivity of the result to the use of centroids rather than individual reactor locations should be small. However, by introducing the MRS facility, the sensitivity may increase. In the final EAs, actual reactor locations were used in lieu of centroids to evaluate the fractions of travel in the various population-density zones because the MRS facility is now included in the analyses. The results in Appendix A reflect this change.

The issue of route-specific analyses is addressed below.

C.2.4.1.2 Route-specific analysis

Issue

The transportation-risk analyses, which were based on national average data, were challenged in many comments as being inadequate and improper for comparing the repository sites. Furthermore, some commenters said that such analyses do not highlight the special impacts on some States through which a large fraction of all shipments to the repository will pass.

Response

The DOE believes that the general methods and national average data used are adequate for this stage of the repository-siting process. Route-specific analyses and an evaluation of the impacts on host States and States along transportation corridors will be included in the environmental impact statement.

The route-specific analyses to be performed in the future will proceed in the following sequence: (1) define important parameters; (2) gather data; (3) develop models as required; (4) perform analysis; (5) consider mitigating measures; (6) report results. Much coordination and cooperation will be required from State governments and Indian Tribes, particularly in the early stages where parameter identification and data gathering will take place.

C.2.4.1.3 Assessment of the consequences of accidents

Numerous comments said that Appendix A should discuss the consequences of accidents that could occur during transportation and recommended that the analysis consider such factors as route-specific anomalies, the cost of emergency response and cleanup, ingestion pathways, and occupational and nonoccupational exposures.

Response

The analyses described in the draft EAs were presented in terms of risk, which is the product of the probability of occurrence and the consequences of that occurrence. Consequence analyses had been performed, but their results were used in producing the risk values published and were not presented separately.

For the final EAs, the consequences of accidents were reevaluated, considering the suggestions of the commenters. The results, consisting of both costs and radiation doses, are in Appendix A. The potential impacts of releases to the atmosphere with deposition on land and on a reservoir are evaluated. Also included are the estimated probabilities of the accidents.

Emergency-response and cleanup costs are described in detail in a study prepared for the NRC (NRC, 1980) and thus are not included in the final EAs.

C.2.4.1.4 Maximum exposure of individuals

Several commenters stated that there were plausible scenarios in which an individual would receive more radiation exposure than the maximum dose estimated in Appendix A. Others said that Appendix A should include the maximum exposure received by an individual during an accident.

Response

Elements of the suggestions received have been combined to define a new set of circumstances for estimating the maximum exposure that individuals might receive during shipments to a repository under normal conditions. Similarly, accident descriptions have been developed for estimating the maximum radiation exposure received by a rescue worker and a member of the public. These analyses are presented in Appendix A.

C.2.4.1.5 Modal split for shipments

Several commenters were confused about the percentage of shipments that will occur by truck and by rail. Some analyses assumed that 70 percent of the shipments would be by rail and 30 percent by truck, while most of the analyses assumed for 100 percent by rail or 100 percent by truck. Furthermore, earlier studies were based on 50 percent of shipments going by rail and 50 percent by truck.

Response

Analyses have not been inconsistent. In order to calculate the maximum national impacts of transportation to a repository, two cases were evaluated. One case evaluated the impacts resulting from making all shipments by rail (100 percent rail) and the other from all shipments by truck (100 percent truck). It is expected, however, that during the early years of repository operations rail shipment will be used for no more than about 50 to 70 percent of the total spent-fuel shipments because of the lack of rail spurs at some reactor sites and other limitations. In later years it is expected that reactor capability to ship by rail will be improved, and the fraction of spent fuel shipped by rail will increase to a least 70 percent. In addition, the rail-to-truck ratio will vary from year to year, depending on which reactors are making shipments.

Assumptions of 100 percent by truck and 100 percent by rail will continue to be used, except that for shipments from the MRS facility to the repository only the rail made will be considered. For national risk and cost impacts resulting from radioactive-material shipments and directly attributed to transportation operations, these cases result in the maximum predicted impact.

C.2.4.1.6 Defense waste

Several commenters stated that the volume of defense waste to be shipped to a repository was understated in the draft EAs. In particular, the EAs only considered the transportation of defense high-level waste from the Savannah River Plant and did not consider transportation from either the Hanford Site or the Idaho National Engineering Laboratory (INEL). One commenter asked about shipping liquid high-level waste.

Response

The final EAs consider shipments of defense high-level waste from the Savannah River Plant, the Hanford Site, and the INEL. Defense high-level waste will not be transported as a liquid nor will separate shipments of krypton-85 or iodine-129 be made.

The transportation of defense high-level waste is discussed in Chapter 5 and Appendix A of the final EAs. This discussion also recognizes that the President has decided that defense high-level waste should be shipped to a civilian repository for disposal; this decision had not been made when the draft EAs were issued.

C.2.4.1.7 Monitored Retrievable Storage

Issue

Some commenters objected that the transportation analysis was inadequate because a facility for monitored retrievable storage (MRS) was not included in the waste-management system considered in the draft EAs.

Response

The MRS facility had not been proposed when the analyses were prepared for the draft EAs. Preliminary transportation analyses indicate that the total number of miles traveled by the cask fleet can be decreased by introducing an MRS facility into the waste-management system. A description of a representative transportation system designed to support the MRS facility was used to estimate transportation costs and risks for a waste-management system with an integrated MRS facility; the results are included in Appendix A. This new analysis supplements, rather than replaces, the analysis for the reference case.

C.2.4.1.8 Barge transportation

Issue

Several commenters objected that the use of barges had not been given any consideration in the transportation risk assessment, calling this a serious deficiency because barge transportation is a discriminator among the potential

candidate sites; some of them felt that this omission was most serious for the Hanford site, which is close to a navigable waterway (approximately 16 miles away).

Response

A discussion of the barge mode is included in Appendix A to the final EAs. The discussion is in two parts: a description of the mode as a feasible alternative that can play a secondary or supplementary role in the transportation of radioactive wastes and a synopsis of a risk and cost study performed by the Argonne National Laboratory (Tobin and Meshkov, 1985) to examine the normal risk of transporting by barge and to examine costs of shipment, including transfers to truck or rail. The set of circumstances considered does not include the shipment of spent fuel from reactors in the East through the Panama Canal to the Hanford site. The discussions explain the premise that barge transport is not a sensitive discriminator among sites, and it is unnecessary therefore to include an exhaustive analysis in the final EAs.

The particular logistics for using barge to transport spent fuel from some reactors near the West Coast to the Hanford site are discussed in the final EA for Hanford.

C.2.4.1.9 Consideration of a second repository

Issue

Some groups were critical of the fact that the EAs did not consider the implications of a second repository on transportation. They postulate that a two-repository system would minimize the overall cost and risk of transportation.

Response

Favorable condition 5 of the transportation guideline is the "total projected life-cycle cost and risk for transportation of all wastes designated for the repository site which are significantly lower than those for comparable siting options, considering locations of present and potential sources of waste, interim storage facilities, and other repositories." The second-repository program has not yet reached the point where potential sites can be identified--in contrast to the MRS facility, where an analysis is now possible because, since the publication of the draft EAs, potential MRS sites have been identified. As a result, the DOE cannot perform rigorous cost and risk analyses analogous to those done for the MRS case. However, certain assumptions about the potential impacts of a second repository can be based on previous studies. A discussion of the potential impacts of a second repository is found in Appendix A.

C.2.4.1.10 The use of existing casks in the EA analysis

Issue

A number of comments challenged the validity of using the characteristics of currently existing and NRC-certified casks for the transportation risk analysis in the draft EAs. The commenters recognized that the design of the new casks to be used for most shipments will reduce the number of shipments because of higher capacities. However, they questioned that the greater quantities of fuel in a single cask would provide a greater source for the release of radionuclides in a serious accident.

Response

The risk and cost assessments for transportation have been reevaluated, using the predicted characteristics of the new family of casks, even though their designs are not yet available. Risks were assessed for both normal and accident conditions, and assumptions that would result in the maximum expected impacts were used. Because of the conservatism in all assumptions, the impacts are similar to those calculated for existing casks, even though the new casks will require fewer miles of travel and fewer shipments. The results are found in Chapter 5 and in Appendix A.

C.2.4.1.11 Adequacy of current cask designs

Issue

Some commenters questioned the adequacy of the design of currently existing casks.

Response

The adequacy of cask design is a regulatory issue, and, since the existing spent-fuel casks have been certified by the Nuclear Regulatory Commission, the DOE has no reason to question the adequacy of their design. The existing casks have carried thousands of shipments without an accident that resulted in the release of radioactive material. The DOE will develop a new family of casks because it seeks to increase efficiency, not because it is concerned about the safety of existing casks. The new-generation casks will also have to meet regulatory requirements for cask design and be certified by the Nuclear Regulatory Commission. A more detailed discussion of the new family of casks is found in Appendix A.

C.2.4.1.12 Additional testing of casks

Issue

Several commenters expressed concern that casks are not sufficiently tested to ensure that the public is safe during transportation. Some suggested destructive testing of full-scale prototype casks.

Response

The Nuclear Regulatory Commission has specified a series of hypothetical accident conditions that a cask must be shown to survive. Survival can be demonstrated through analysis should the designer so choose or through testing, but destructive testing is not mandatory. However, many tests, including full-scale crash tests, have been conducted to verify analytical models. The results of analyses and experiments have been quite close, and hence considerable confidence has been developed in the analytical models used in design analysis.

Casks developed for the shipments to a repository will be certified by the Nuclear Regulatory Commission. The private contractors chosen to design and obtain certificates for the casks will be allowed to choose the manner of demonstrating how their designs comply with NRC regulations. At a minimum, the DOE will use an independent testing laboratory to perform destructive tests of scale models for cask designs as a benchmark or check of structural performance under accident conditions. In addition, nondestructive tests will be performed on each cask during and at the completion of manufacture, and the casks will be inspected before each shipment.

C.2.4.1.13 Cask weeping

Issue

Some commenters said that the phenomenon called "cask weeping" had not been considered in the risk assessments.

Response

The phenomenon of cask weeping can be described as follows: A cask that has been loaded or unloaded in a reactor storage pool becomes contaminated with radioactivity on its surface. Before shipment, the external surface of the cask is decontaminated to levels specified by regulations, but when the cask is inspected on arrival at its destination, contamination above the levels allowed by regulation is found. Though the actual mechanism is not understood, a possible explanation is that, when a cask is repeatedly placed into water-filled spent-fuel storage pools, it becomes contaminated over time, with the contamination penetrating deeper into the pores of the cask body. The cleaning removes the surface contamination, but the contamination that is deep in the pores remains. During the transportation of a loaded cask, the surface can become contaminated again as the deep contamination is driven out of the pores by the heat of the spent fuel inside the cask.

However, the levels of contamination associated with the weeping phenomenon are not high enough to be factored into the risk assessment for transportation, and procedures will be used to effectively preclude this problem during shipments to a repository. For example, wrapping the cask in plastic before entry into reactor fuel storage pools is an effective practice that is currently used. Therefore, weeping is not expected to be a significant contributor to risk during spent-fuel transportation to a repository and is not included in the transportation-risk assessment presented in Appendix A.

C.2.4.1.14 Adequacy of NRC testing requirements

Issue

Several commenters said that the tests that casks must pass to receive NRC certification are not severe enough.

Response

The conditions being challenged are established by the Nuclear Regulatory Commission, and the DOE will continue to rely on the Commission to verify the adequacy of the test conditions.

C.2.4.1.15 Legal impediments

Issue

Two commenters took exception to the DOE's interpretation of State or local restrictions against radioactive-waste transportation as "legal impediments" in favorable condition 7 of the technical guideline on transportation (10 CFR 960.5-2-7). In particular, the U.S. Department of Transportation (DOT) commented that, since its regulation of highway routing of radioactive materials (HM-164) has been established as valid by the U.S. Supreme Court, the only "legal impediment" would be a State or local routing rule that renders compliance with HM-164 impossible but is found not to be preempted under provision 112(b) of the Hazardous Materials Transportation Act (HMTA). If such a finding cannot be made, any State or local routing rule that prevents or seriously impedes compliance with HM-164 is preempted by the HMTA (Section 112(a)).

Response

Favorable condition 7 of the transportation guideline is the "absence of legal impediments with regard to compliance with Federal regulations for the transportation of waste in or through the affected State and adjoining States."

Insofar as the Department of Transportation is the responsible regulatory agency, the DOE defers to its interpretation of "legal impediment." Because State, local, or tribal laws or regulations restricting the transportation of radioactive waste that are inconsistent with either the HMTA or the DOT regulations issued thereunder are preempted by the HMTA, such laws or regulations are not considered legal impediments in the final EAs; a formal nonpreemption determination by the DOT, in response to a sepcific request, is required for such laws or regulations to become legal impediments. The findings in Chapter 6 reflect this change in interpretation and appropriate rationales for the finding are included in all EAs. A more extensive discussion of HM-164 is presented in Appendix A.

C.2.4.1.16 State designation of alternative routes

Issue

The commenters noted that in Appendix A the EAs contain an incorrect statement--namely, that State designation of alternative preferred routes must be approved by the Department of Transportation. They said that HM-164 does not require States to seek DOT approval of alternative designated routes.

Response

The Department of Transportation requires, under HM-164, that a "preferred route" be used for the transportation of controlled-quantity shipments of radioactive materials. Preferred routes are interstate highways and State-designated alternative routes. Although the States and Indian Tribes must comply with DOT guidelines (or an equivalent routing analysis that adequately considers the overall risk to the public) and consult with affected local jurisdictions, Indian Tribes, and potentially affected adjacent States before establishing a preferred route, there is no requirement to seek DOT approval of alternative designated routes. The EAs have been revised to reflect this in Appendix A.

C.2.4.1.17 Indian Rights

Issue

Several Indian Tribes commented that the EAs failed to recognize the authority granted to tribal governments on federally recognized Indian reservations under the HMTA and the rules set forth by the Department of Transportation in HM-164. One Indian Tribe noted that a ban on radioactive-waste transportation through its reservation constituted a "legal impediment."

Response

The final EAs use the DOT definition of "State routing agency." The DOT rules (HM-164) include appropriate Indian tribal authorities in the definition of "State routing agency" and, as such, allow the governments of Indian Tribes to exercise routing authority in a similar manner as provided for the State governments.

If a ban enacted by an Indian Tribe meets the criteria of the HMTA for nonpreemption, then (as in the case of any State ban) a legal impediment will be present. A more detailed discussion is given in Appendix A, (see also Section C.2.4.1.15).

C.2.4.1.18 Availability of railroads for transporting radioactive waste

Issue

One commenter noted that, though the DOE states that rail carriers are available for shipping radioactive waste, the willingness of the railroads to transport the waste is questionable.

Response

There have been a series of decisions by the Interstate Commerce Commission (ICC), affirmed on judicial review, on this and related issues over the past several years. The Commission has ruled that, as common carriers, the railroads cannot refuse to carry cask loads of spent fuel and to return empty rail casks. Furthermore, this transport must be accomplished in regular train service (as opposed to "special trains," which the Commission has found to be a "wasteful transportation practice"), unless the DOE chooses otherwise.

At this time uncertainty in rail transportation remains in the tariff rates. For eastern railroads, the Commission has upheld a DOE and industry challenge to the published tariff rates and has reduced and set the rate levels. However, for western and southern railroads, the question of rate appropriateness is pending before the Commission. Therefore, the issue does not appear to be whether the railroads will transport radioactive waste, but rather at what rates.

In order to more closely work with the railroads and to understand the concerns that do remain, the DOE has and will continue to invite them to participate in all stages of the transportation program, including the development and testing of shipping casks. Also, the DOE and the Association of American Railroads are planning joint activities to resolve issues.

C.2.4.1.19 Railroad regulations

Issue

A commenter asked for a description of the existing regulations for the transportation of radioactive waste by rail.

Response

Federal regulations regarding the transportation of hazardous material, including radioactive material, can be found in Title 49 of the Code of Federal Regulations, Parts 174.83-174.93. These regulations are concerned with the handling of placarded cars. In particular, for cars containing radioactive material, the regulations deal with the switching of cars, the ban on the use of passenger trains, and the position of cars in a train. A more-detailed discussion of rail regulations is included in Appendix A of the final EAs.

C.2.4.1.20 Dedicated trains

Issue

Several comments concerned the treatment of rail transportation in the EAs. In particular, the commenters objected that discussions and analyses of rail shipments were based on shipping in general commerce rather than by dedicated trains.

Response

Appendix A has been revised to include a general discussion of the use of dedicated trains and an analysis of the risks associated with using dedicated trains for the movement of waste from an MRS facility to a repository.

C.2.4.1.21 Regional transportation analysis

Issue

Federal agencies as well as several States and Indian Tribes criticized the regional transportation analysis, stating that it did not extend far enough from the site to include all of the pertinent impacts, such as weather hazards, the cost of building access routes, the radiological risk, traffic hazards and increased traffic volumes on highways connecting interstate highways with access roads, and possible routes across Indian lands.

Response

The "regional" transportation analysis includes, as a minimum, the routes from the potential site to the nearest interstate highway or mainline railroad; the analysis may be extended beyond that area if the circumstances at the particular location warrant it. However, the intent of the siting guidelines (10 CFR Part 960) is to focus on effects near the site. The estimates of the costs of building access routes will be improved during site characterization. Currently available data on road conditions (e.g., traffic volumes and potential hazards) are presented in the EAs. More-detailed data and a discussion of mitigation measures will appear in the environemental impact statement.

C.2.4.1.22 Weather impacts

Issue

Many commenters criticized the way in which weather impacts were considered in the transportation analysis. Some gave examples of weather-related road closings; others asked about the effect of weather on frequency and severity of accidents.

Response

Weather conditions are considered in favorable condition 9 of the transportation guideline: "A regional meteorological history indicating that significant transportation disruptions would not be routine seasonal occurrences" (emphasis added). This favorable condition is concerned with the absence of routine seasonal conditions that could disrupt repository activities to the extent that the annual waste-acceptance rate could not be met. Weather-related route closures are considered in the final EA, and the analysis of such closures is considered adequate for this stage of the site-selection process. When the number of sites has been narrowed and route-specific analyses are conducted, concerns about occasional weather-related bottlenecks between specific reactors and repository sites can be addressed.

C.2.4.1.23 Potential for human error

Issue

Some commenters stated that the potential for human error in the transportation of radioactive waste is not treated adequately in Appendix A.

Response

The DOE has considered the potential for human error in the assessment of transportation risks. A study prepared for the Nuclear Reguluatory Commission (NRC, 1980) analyzed detailed incidents of human error and deviations from accepted quality-assurance (QA) practices in the transport of radioactive materials. The results indicate that the risks from human errors or deviations from accepted QA practices are extremely small (i.e., 0.000012 latent-cancer fatality per shipment-year for packages tested to accident conditions), and thus it is not meaningful to include these risks in the radiological risk analysis for transportation.

C.2.4.1.24 Retrieval of waste

Issue

Commenters asked about the impacts that would result from the transportation of waste retrieved from a repository should retrieval prove to be necessary.

Response

At this stage in the repository-design process, the full impacts of retrieval on transportation requirements are not known. If retrieval proves to be necessary, the spent fuel will be older and less radioactive than at the time of emplacement; it is therefore expected that the transportation of such waste should have less of an impact. A discussion of the retrievability issue in general can be found in Chapter 5.

C.2.4.1.25 Financing infrastructure improvement

Issue

Several commenters suggested that the costs of infrastructure improvements, such as the upgrading or reconstructing of roads or rail lines, should be considered in the cost analysis and that more information is needed on how such improvements would be integrated with local economic development plans.

Response

A preliminary analysis of the need for upgrading or reconstructing local roads and railroads was performed for the comparative evaluation of sites. Related discussions can be found in Chapter 6 of the individual EAs. The condition of local roads or railroads will be established during site characterization; it will be analyzed more rigorously for the environmental impact statement and again before the repository begins operation, and plans for integration into local development plans will be developed.

C.2.4.1.26 Adequacy of the transportation guideline

Issue

Many commenters expressed the opinion that the transportation guideline is not adequate for discriminating among sites. In particular, they stated that the use of legal impediments as a discriminator is inappropriate, as they may change over time; that transportation costs should not be considered in the ranking because they are of minor importance in comparison with transportation risks to the public and the environment; and that the guideline condition discussing weather impacts on transportation in the vicinity of the site should be expanded to include potential disruptions between the reactors and the site. Other commenters criticized the weight given to the transportation guideline, considering the potential impact of transportation.

Response

The siting guidelines (DOE, 1984c) were developed through consultation with affected and interested States, the Council on Environmental Quality, the Environmental Protection Agency, and the U.S. Geological Survey and received the concurrence of the Nuclear Regulatory Commission. The transportation guideline is one of three guidelines in the preclosure group on environmental, socioeconomics, and transportation. This group of guidelines is second in importance to the preclosure group on radiological safety but all the guidelines in any preclosure group are assigned equal importance.

C.2.4.1.27 Inadequate treatment of transportation issues

Issue

Many comments stated that a variety of general transportation issues received inadequate or no attention in either the body of the EA or in Appendix A. Among the issues listed were emergency-response responsibilities, the impacts of using overweight trucks, rail routing requirements, inspection and enforcement, liability, safe havens, advance notification, training, sabotage, NRC safeguards regulations, and the responsibilities of the DOE as the shipper of record.

Response

Many of the topics listed by the commenters are discussed in the EAs, particularly in Appendix A. Since the draft EAs were published, additional policy decisions about several of the issues have been made, and, where additional information is available, the discussion of the issue has been expanded. It should be pointed out, however, that most of these issues, while of concern in the overall context of the transportation program, have little bearing on the site-selection process. They were included in the EAs primarily to give the reader a better understanding of the transportation program. For further information on how the DOE plans to interact with the States, Indian Tribes, and industry to resolve these other issues, the reader is referred to the Transportation Institutional Plan (DOE, 1985f).

C.2.4.2 Retrievability

Several commenters addressed the need and the desire to retrieve spent fuel and high-level waste after emplacement in the repository. The issues they raised include the view that wastes should not be placed where they cannot be retrieved, the DOE's plans for the length of the retrievability period, and the methods to be used in retrieval.

Issue

Some commenters said that at some point the United States may want to retrieve the spent fuel or high-level waste to reuse some of its components or to take advantage of new technical developments. The wastes should therefore not be emplaced where retrieval is not possible.

Response

In compliance with the Act and the NRC criteria for geologic repositories (10 CFR Part 60), the waste will be retrievable for up to 50 years after the emplacement of the first waste. The reason for retrieval would be to protect public health and safety. The DOE does not intend to recover the wastes for their economic value. The commitment to geologic disposal implicitly forfeits the future use of the waste in return for assurance that the waste has been permanently isolated from the human environment.

Issue

A commenter asked whether there is a scientific and political consensus about whether the wastes should be retrievable or permanently disposed.

Response

By mandating geologic disposal, the Act implies a political consensus that disposal must be permanent. The concept of permanent disposal is widely supported by the technical community and is explicit in the NRC and EPA regulations (10 CFR Part 60 and 40 CFR 191, respectively). The NRC requirement for retrievability is directed at demonstrating that the performance of the repository is adequate for permanent disposal.

Issue

Commenters asked that the DOE specify the period during which it plans to be able to retrieve waste.

Response

As required by the Nuclear Regulatory Commission in 10 CFR Part 60.111, the retrieval of waste from a repository will be possible at any time up to 50 years after the start of waste emplacement.

Issue

One commenter wanted to know how retrieval will be accomplished.

Response

If retrieval is necessary, it will be accomplished by reversing the steps taken for waste emplacement. The exact sequence and the equipment to be used for retrieval will depend on the design of the repository, the host rock of the repository, as well as the reason for retrieval (e.g., degree of container failure). Equipment for retrieval will be designed and tested before the license application, and the DOE's retrieval capability will have to be approved by the Nuclear Regulatory Commission.

C.2.4.3 Second repository

A number of comments concerned the location of the second repository and succeeding repositories and asked whether an indefinite expansion of the first repository is an alternative to constructing a second repository. Some parties wanted to know whether sites characterized for the first repository or sites not nominated for characterization for the first repository could be potential sites for the second repository. Others wanted to know why crystalline and argillaceous rocks were not considered for the first repository.

Issue

Commenters asked where the second repository will be located and whether both repositories could be located in the same State.

Response

With the exception of sites that were nominated but not recommended for characterization, the DOE may consider for the second repository any site previously considered for the first repository that was (1) not disqualified and (2) not selected for the first repository. The DOE is considering sites in crystalline-rock bodies in the eastern United States and announced 12 potentially acceptable crystalline sites as suitable for further consideration for the second repository (DOE, 1986).

The Act and the siting guidelines specify that the DOE must consider regionality in selecting the site for the second repository. It is therefore unlikely that the first and the second repository will be located in the same State.

Issue

A commenter wanted to know what will prevent an indefinite expansion of the first repository as an alternative to constructing a second repository.

Response

The Act allows the first repository to accept no more than 70,000 metric tons of uranium or the equivalent waste from reprocessing until a second repository is in operation.

Issue

Commenters asked for clarification on whether sites characterized for the first repository but not selected for the first repository can be considered for the second repository.

Response

The Act specifically states that sites that have been characterized for the first repository and are suitable but were not chosen for the first repository may be considered for the second repository. It is expected that all three sites characterized as part of the selection process for the first repository will be found suitable. The fact that only one of the three sites characterized is chosen for the first repository does not mean that the other sites are significantly less suitable.

Issue

The DOE should clarify whether potentially acceptable sites not nominated for characterization for the first repository can be nominated for characterization for the second repository.

Response

The Act permits the four sites designated as potentially acceptable sites but not nominated as suitable for site characterization to be considered as potential sites for the second repository. Whether they survive the selection process for the second repository will depend on the merits of those sites vis-a-vis other potential sites.

Sites that were nominated, but not recommended for site characterization, are not eligible to be considered for the second repository.

C.2.5 OTHER WASTE-MANAGEMENT ACTIVITIES

This section presents comments and responses on monitored retrievable storage, which the DOE plans to propose to Congress as an integral part of the waste-management system, the storage of spent fuel at the site of the reactors, and the reprocessing of spent fuel for the recovery of uranium and plutonium.

C.2.5.1 Monitored retrievable storage

A number of comments were concerned with retrievable storage, the DOE's plans for a facility for monitored retrievable storage (MRS), and the lack of information in the draft EAs about the role of an MRS facility in the overall waste-management system. Several commenters recommended that the DOE consider monitored retrievable storage as an alternative to permanent disposal. Some commenters requested information on the possible locations of the MRS facility.

Issue

The DOE should consider the retrievable storage of spent fuel in a facility where it can be monitored.

Response

The DOE has indeed considered of the need for, and the feasibility of, monitored retrievable storage, and was required to do so by the Act. The DOE considered alternative roles and schedules for MRS facilities and has assessed their value to the waste-management system. Specifically, the DOE evaluated a backup MRS facility to be constructed only if there is a significant delay in the repository program and an integral MRS facility that would receive and prepare spent fuel for disposal. Both options have been compared with the currently authorized system, which does not include an MRS facility. Early in 1986, the DOE expects to propose to Congress the construction of an MRS facility as an integral part of the total waste-management system.

Issue

Some parties said that the draft EAs lacked information about the role of an MRS facility in the waste-management system and suggested that the DOE discuss the possible locations for the MRS facility.

Response

The principal functions of an MRS facility would be to receive and prepare the waste for disposal, thus eliminating the waste-preparation functions from a repository, to serve as a hub for transportation operations, and to provide temporary storage.

After issuing the draft EAs, the DOE concluded that monitored retrievable storage should play an integral role in the waste-management system. Section 3.2 of Part I of Volume I of the Mission Plan (DOE, 1985a) describes this integral MRS concept and plans for its development.

On April 26, 1985, the DOE selected three candidate sites in Tennessee for an MRS facility (DOE, 1985g). The preferred site is the site of the canceled Clinch River breeder reactor; alternative sites are a site on the DOE's Oak Ridge Reservation and the site of the canceled Hartsville nuclear power plant.

The introduction to Chapter 5 of each EA has been augmented to discuss the role of the MRS facility, and the transportation analyses have been expanded to treat the effects of using an MRS facility.

C.2.5.2 Onsite storage

Some commenters asked about the potential for long-term or permanent storage at the power plants that generate the wastes as an alternative to transporting wastes over long distances. Other commenters suggested that the DOE should continue storage in existing spent-fuel pools.

Issue

Commenters said that the DOE should consider developing repositories near the reactors generating the waste instead of in one or more central repositories.

Response

Nearness to the reactors generating the waste is not an acceptable criterion for siting repositories. The principal criteria are those embodied in the siting guidelines: waste containment and isolation from the accessible environment after closure; preclosure radiological safety; suitable environmental, socioeconomic, and transportation conditions; and ease and cost of construction, operation, and closure. Even if sites meeting the siting guidelines could be found near the reactors, it would be imprudent and impractical to develop many repositories. In addition to requiring very large

expenditures, a multiple-repository program would require acceptance of many States and individual licenses for multiple facilities, long-term safety of each repository--a task that is formidable even for one repository. Two centralized repositories, as currently planned, would be able to accommodate all the waste and would solve the national problem of radioactive-waste disposal at reasonable cost.

Issue

The DOE should consider continuing storage in existing spent-fuel storage pools at reactor sites.

Response

In accordance with the Act, the DOE encourages the efficient use and expansion of at-reactor storage. At-reactor storage and the expansion of the on site capacity for that storage are the prime responsibility of the plant operators and owners, and not of the Federal Government. The Federal role is to encourage and expedite, where necessary, the expansion of that storage capacity until the spent fuel is shipped for emplacement in a repository for permanent disposal. However, the Act specifies geologic repositories as the means for permanent disposal and requires the DOE to site two repositories. Onsite storage is to be provided for a limited amount of fuel (1,900 metric tons of uranium) if any utility requests it and the Nuclear Regulatory commission determines that the utility is eligible. The DOE's program for such Federal interim storage is discussed in the Mission Plan (DOE 1985a, Vol. I, Part I, Chapter 3).

The storage of spent fuel in storage pools at reactor sites is safe for the purpose for which the pools were designed. Spent-fuel pools are meant to provide temporary storage, not an alternative to permanent disposal.

C.2.5.3 Reprocessing

Some commenters asked about the feasibility of reprocessing spent fuel, the use of stabilizing matrices for high-level waste, and the possibility of retrieving wastes from a repository for reprocessing. Other commenters wanted to know whether the wastes from the repository could be applied to any useful purpose.

Issue

Commenters questioned whether there are ways to recycle the components of the spent fuel or waste to be placed in the repository or in some way reverse the process of creating radioactive materials.

Response

There is no practical way known today of reversing the process that creates radioactive materials. The spent fuel could be reprocessed to remove the plutonium and uranium for use in other reactors. However, that does not substantially reduce the volume, heat generation, or radioactivity of the

material requiring disposal. Currently there are no plans for reprocessing spent fuel. The DOE is planning to accept spent fuel for disposal with no intent to retrieve it for reprocessing unless required to do so for the purposes of recovering economically valuable as required by the Act.

Both President Ford and President Carter imposed a ban on reprocessing commercial spent fuel in the United States in response to concerns that the recovered fissile could be diverted to foreign nations or terrorists and used in making nuclear bombs. President Reagan lifted the ban on commercial reprocessing on October 8, 1981, but it is current U.S. policy that the reprocessing of spent fuel from nuclear power plants must be a private-sector enterprise. Because of the lack of economic incentives, industry concern about licensing uncertainties, and the potential for changes in government policy, there is little industry interest in reprocessing.

Issue

Commenters feared that the spent fuel and high-level waste in the repository will be dug up for reprocessing and be reused.

Response

As already mentioned, the DOE plans to accept spent fuel for disposal with no intent to retrieve it for reprocessing unless required to do so for the purposes of recovering the economically valuable resources, as required by the Act. However, the Act requires the repository to be designed and constructed to permit the retrieval of any spent fuel emplaced in the repository during an appropriate period of operation of the facility. The reasons for such retrieval, may pertain to public health and safety, the environment, or the recovery of the economically valuable contents of the spent fuel. In addition, the Nuclear Regulatory Commission requires that the waste emplaced in the repository be retrievable for 50 years after the start of waste emplacement, and the satisfactory completion of a performance-confirmation program. The DOE will comply with these requirements.

Issue

Some comments recommended that glass or ceramic matrices be used to immobilize high-level waste.

Response

All of the high-level waste to be accepted by the repository--the defense high-level waste and the commercial high-level waste from the West Valley Demonstration Project--will be in the form of borosilicate glass.

Issue

Some commenters expressed concern that the materials in the repository will be used to make bombs.

Response

The nuclear materials for weapons are obtained from defense reactors specifically designed to produce such materials. The spent fuel from power reactors is much less useful in the manufacture of modern nuclear weapons, and the DOE has not intention of using it for this purpose.

C.2.6 TYPES OF WASTE TO BE RECEIVED AT A REPOSITORY

A number of commenters asked about the nature of the wastes to be received at the repository. Other comments concerned the effects of slower or faster rates of waste generation and the minimum age of the spent fuel to be emplaced in the repository.

Issue

Commenters wanted to know what kinds of waste are to be emplaced in the repository.

Response

The Nuclear Waste Policy Act, which authorizes the construction of the repository and prescribes procedures for its siting and financing, specifies that the repository is to accept high-level waste and spent fuel. Thus, the wastes that will be accepted by the repository will consist of spent fuel from commercial nuclear power plants, solidified high-level waste from the reprocessing of nuclear fuel from defense reactors, and a small amount of commercial high-level waste from a demonstration facility at West Valley, New York. Also emplaced in the repository will be the low-level waste that is generated at the repository during operations. If spent fuel is consolidated before emplacement in a repository, the repository may also accept some or all of the fuel-assembly hardware that will be left by the consolidation process. No other low-level waste, such as the waste from research centers, hospitals, and general industry, will be accepted. Although the Act does not forbid it, the DOE does not at present plan to accept foreign wastes for disposal in the repository. The acceptance of foreign wastes requires a report to Congress.

The volume of the waste will be such that two repositories are expected to meet the requirements for disposal well into the twenty-first century.

Issue

Commenters wanted to know how changes in the rates of waste generation would affect the operation of the repository.

Response

The duration of operations at the repository will be determined to a large extent by the rate of waste. The currently projected operational period of 28 years for the first repository will not be affected by changes in the rate of waste generation because much of the waste that will go into the first repository will exist by the time the repository starts accepting waste. The

length of operations at the second repository will be determined to a larger extent by its planned capacity and the rate of waste generation in the twenty-first century. The rate of receipt of wastes at the repository will have an impact on employment during the operations phase of the repository, but the impact will be relatively minor.

Issue

The EA analyses are based on 10-year-old spent fuel, but the DOE is committed to accept spent fuel as early as 5 years after it leaves the reactor.

Response

The DOE's contracts with the utilities obligate it to accept spent fuel that is 5 years old or older. The current DOE specification of generic requirements for repositories shows 5-year-old fuel as the baseline for design. The analyses reported in the EAs are based on an earlier assumption that only fuel that is 10 years old or older would be emplaced in the repository. The DOE has not yet performed an analysis for 5-year-old fuel. The final EAs have been revised to add a discussion that explains the DOE's plans to perform analyses for 5-year-old fuel in the repository and the possible impact of an MRS facility on the age of the spent fuel emplaced in the repository.

C.2.6.1 Defense waste

A number of commenters addressed the status and potential impacts of plans to accept defense high-level waste in the repositories.

Issue

Some persons wanted to know how the decision made to include defense high-level waste in the repository was made.

Response

In compliance with the Act, the Secretary of Energy reported to the President, in January 1985, the results of a study showing that there are no clear health and safety, transportation, public acceptance, regulatory, or national-security advantages or disadvantages associated with a separate repository for defense high-level waste and that there are clear cost advantages to emplacing defense and commercial wastes in the same repository. The President agreed with the Secretary's findings that a separate repository is not necessary for defense high-level waste. Therefore, in accordance with the Act, the Secretary of Energy is proceeding to arrange for the use of repositories developed under the Act for the disposal of defense waste. The evaluation report was released for general distribution in June 1985 (DOE, 1985h).

Issue

Many commenters felt that the subject of defense waste was not adequately covered in the draft EAs.

Response

The draft EAs did not contain much information about defense-waste disposal in the repositories, because the report on the subject (DOE, 1985h) was sent to the President in January 1985 (after the publication of the draft EAs), and the Presidential decision to include defense waste in the repository was made after that date.

It is important to note that defense high-level waste presents a lower radiological hazard per unit volume than does commercial high-level waste or spent fuel and a much lower heat-generation rate. The radiological risk analyses in the draft EAs, which are based on the assumption that only civilian waste will be accepted, therefore overestimate the risk of a repository containing both commercial and defense high-level wastes.

Some changes have been made to the EAs to reflect the decision to emplace defense waste. These include the addition of an entry in the tables on the incremental impacts of alternative repository designs. This new entry deals with the addition of defense waste. For consistency, these tables all appear at the beginning of Chapter 5 in the final EAs.

Issue

Several parties wanted to know who would pay for the costs of defense-waste disposal.

Response

The Act requires that, if defense waste is emplaced in any of the repositories developed under the Act, then a proper share of the costs of developing, constructing, and operating the repository is to be paid by the Federal Government into the Nuclear Waste Fund, which is used to finance the activities required by the Act.

Issue

Some persons asked whether the same safety standards will be applied to both defense and commercial high-level wastes.

Response

The January 1985 report to the President on the use of commercial repositories for the disposal of defense high-level waste (DOE, 1985h) stated that all defense waste to be disposed of will be in a form that satisfies the regulations governing the repository--namely, 10 CFR Part 60 (NRC, 1983), 10 CFR Part 960 (DOE, 1984c), and 40 CFR Part 191 (EPA, 1985).

Issue

Many commenters asked about the nature of defense high-level waste and the effect of its emplacement in the repository.

Response

Defense high-level waste results from the reprocessing of spent fuel. It differs significantly from commercial high-level waste and spent fuel because it has much lower concentrations of radioactive fission products and hence a much lower rate of heat generation. The 20,000 packages of defense high-level waste expected to be produced by the year 2020 are considered equivalent to 10,000 metric tons of uranium (MTU) of spent fuel. At the end of 1982, approximately 15 percent of the total radioactivity in spent fuel and high-level waste in the United States was from defense activities; most of the remaining 85 percent was from commercial spent fuel. By the year 2000, the amount of radioactivity in the defense waste is expected to drop to 3 percent of that of all wastes to be accepted by the repository.

In his report to the President (DOE, 1985h) on the potential uses of the repositories for defense high-level waste, the Secretary of Energy explained the DOE's interpretation of the capacity limit (70,000 MTU) imposed by the first repository until a second repository is in operation; the DOE's interpretation is that the limit applies to total quantity of waste--that is, both commercial and defense waste. The analysis in the report assumed that the firs repository would accept the 10,000 MTU equivalent of defense waste and 60,000 MTU of commercial waste and that the second repository would be in operation before the 70,000-MTU limit was reached. The report also said that, if all the defense-waste canisters expected to be produced by 2020 were emplaced in one repository with a capacity of 70,000 MTU, it would occupy only about 10 percent of the volume of repository. This fact is attributed to the low heat-generation rate of defense waste, which allows closer spacing between canisters than that for spent fuel. Thus, the inclusion of defense-waste canisters produced by 2020 will not necessitate any significant expansion of the repository. The Mission Plan (DOE, 1985a) includes a schedule for the acceptance of commercial and defense wastes in the first two repositories.

Issue

Commenters wanted to know about the origin of defense and commercial waste.

Response

Defense high-level waste results from reprocessing of spent fuel at DOE facilities. Commercial high-level waste and spent fuel come from nuclear power plants operated by electric utilities.

Issue

Commenters alleged that the DOE withheld the defense-waste report (DOE, 1985h) to make it appear that defense waste would be disposed of separately from commercial wastes.

Response

The DOE was required by the Act to submit a report to the President on the feasibility of combining defense and commercial waste in the repository. This report was released before the deadline (January 7, 1985), mandated by the Act. The DOE was not required to circulate the report for public comment before it was issued, but the report has been available to the public on request since its release was announced in the Federal Register (DOE, 1985i).

Issue

Some commenters were concerned that the repository might become a military operation because of the disposal of defense waste.

Response

The repository will not become a military operation. The defense wastes are produced at facilities operated by the Department of Energy, not the Department of Defense. Furthermore, there are no plans at present to use additional security measures because of the disposal of defense waste. Normal security measures taken to protect spent fuel during receipt and emplacement will be sufficient for protecting defense high-level waste. These security measures will not interfere with the liberties of citizens in the surrounding areas and will probably not involve military personnel in any capacity.

Issue

Some persons asked whether defense high-level wastes from Hanford will be disposed of in the repository.

Response

Defense wastes from Hanford, the Idaho National Engineering Laboratory, and the Savannah River Plant will be disposed of in the repository. Appendix A in the EAs has been changed to reflect that fact.

C.2.6.2 Foreign waste

Issue

Commenters asked whether foreign wastes will be emplaced in the repository.

Response

Although the Act does not specifically forbid the acceptance of foreign wastes at the repository, the DOE has no plans to do so.

C.2.6.3 Other wastes

Issue

Several persons wanted to know whether the repository will accept low-level radioactive waste from various sources or wastes, other than spent fuel, generated from the decommissioning of nuclear power plants.

Response

The Act authorizes the DOE to site and construct a repository for high-level radioactive waste and spent fuel. Wastes from the decommissioning of military or commercial nuclear reactors are not considered high-level waste at present, and therefore these wastes will not be accepted in the repository. Instead, these wastes are considered low-level wastes.

C.2.7 THE DRAFT ENVIRONMENTAL ASSESSMENTS

Many comments were concerned directly with the EAs. The issues they raised included the format, content, organization, consistency, and documentation of the draft EAs. In addition, many of the comments offered editorial suggestions; all of these were carefully considered in revising the EAs.

C.2.7.1 General comments on the environmental assessments and their function

Some commenters asked why the EAs were issued or why they preceded the DOE's Mission Plan and the EPA final standards. Others objected to their size and complexity, alleged inaccuracies, or incompleteness.

Issue

Some commenters questioned the place of the environmental impact statement (EIS) in the siting process, asking why environmental assessments were prepared rather than an EIS.

Response

The Act specifically requires an EA to accompany the nomination of a site as suitable for characterization (Section 112(b)(i)(E)). An environmental impact statement is one of the documents that will accompany the Secretary's recommendation to the President of one site for development as a repository.

Issue

Commenters pointed out that the Act requires the DOE to prepare a mission plan that would provide a base of information for the site evaluation and selection process. They questioned whether the draft EAs, and the preliminary site nomination and recommendations they contain, should have been prepared before the issuance of the mission plan.

Response

Section 301 of the Act requires the DOE to develop a mission plan that provides sufficient information for informed decisions in carrying out the repository program. A draft mission plan was issued in April 1984 (DOE, 1984a), 8 months before the draft EAs. The revised mission plan was issued in June 1985 (DOE, 1985a) and was used in revising the final EAs. The process and schedule established by the Act, however, did not allow the draft EAs to be delayed until the mission plan was published.

Issue

Several commenters stated that the EAs do not satisfy the requirement of the Act to identify unresolved technical issues and the problems that impede the implementation of the Act. In addition, they felt that the DOE's response to data gaps had been to say that issues would be settled in the final EAs.

Response

Although not required by the Act to do so, the EAs do identify the unresolved issues with regard to the siting guidelines; these issues are discussed in Chapter 6 of the EAs. The DOE believes that the findings made for the guidelines are based on sufficient data and information; the findings made at this stage of the site-selection process are to be based on available information. Definitive data will be collected during site characterization.

Some of the statutory requirements identified by the commenters pertain to the DOE's Mission Plan, not the EAs. Among them are requirements to identify unresolved issues and problems that may impede the implementation of the Act (see Sections 301(a)(2) and (3) of the Act). These requirements are addressed in Chapters 2 and 3, respectively, of Part II in Volume I of the Mission Plan (DOE, 1985a).

Issue

A commenter suggested that the DOE issue another set of draft EAs. The commenter expressed concern that the EAs would be so extensively rewritten in response to public comments that the public should be allowed to review the revised EAs in draft before they are issued in final form.

Response

The DOE will not reissue the EAs in draft for comment for the following reasons. First, most of the changes in the final EAs were made in response to public comments and are explained in this comment-response appendix. Second, the final EA is a final agency action and is therefore subject to judicial review. Third, the DOE believes that it has been responsive to comments on the draft EAs and that an additional comment period would not result in further significant improvements. Finally, interested parties will have additional opportunities to comment on the site-selection process through hearings and comments on the site-characterization plans, the environmental impact statement, and other program documents.

Issue

A number of comments implied that the DOE treated the EA process in a perfunctory manner. Some commenters felt that the DOE did not produce EAs that met the intent of the Act; some even stated that the documents were worthless.

Response

The Act requires the following six major assessments to be included in the EAs:

1. An evaluation by the Secretary as to whether the site is suitable for site characterization under the guidelines.

2. An evaluation by the Secretary as to whether the site is suitable for development as a repository under each such guideline that does not require site characterization as a prerequisite for the application of such guideline.

3. An evaluation by the Secretary of the effects of site-characterization activities at the site on public health and safety and the environment.

4. A reasonable comparative evaluation by the Secretary of the site with the other potentially acceptable sites.

5. A description of the decision process by which the site was recommended.

6. An assessment of the regional and local impacts of locating the repository at the site.

The EAs contain all of these evaluations or descriptions.

The DOE went beyond the requirements of the Act in issuing draft EAs and revising the documents in response to the comments, which required substantive changes. The EAs provide a workable data base for site nomination and recommendation for characterization.

Issue

Commenters said that the draft EAs, and the preliminary site nominations and recommendations they contain, should not have been prepared before the issuance of the final NRC and EPA standards for geologic disposal.

Response

The Act requires the Environmental Protection Agency to establish standards for protecting the public from the radioactive material in geologic repositories. These standards are to be implemented and enforced by the Nuclear Regulatory Commission. The EPA standards are contained in 40 CFR Part 191. The NRC technical criteria for implementing the EPA standards are contained in 10 CFR Part 60. Both sets of regulations were issued in draft

form in 1982 and were used in developing the siting guidelines. The final NRC criteria were released in June 1983, before the draft EAs; the final EPA standards were released in September 1985, after the draft EAs. The schedule requirements of the Act did not allow the draft EAs to be delayed until September 1985, but the final EPA standards were used in revising the EAs.

Issue

Many commenters felt that the size and technical complexity of the EAs discourage review by the public.

Response

The EAs are indeed long documents that contain many technical discussions. Their length is the result of an attempt to present as much information as was deemed necessary for compliance with Appendix IV of the siting guidelines (DOE, 1984c), which specifies what kinds of information should be used to support findings about compliance with the guidelines, and as much information as was needed for the evaluations required by the Act. For the same reasons, much of the material presented in the EAs, especially in Chapter 6, is of necessity technical because it presents evaluations of sites against the various conditions specified in the guidelines--conditions that are usually specified in technical terms. Every effort was nonetheless made to make the technical presentations clear and comprehensible.

Issue

Some parties criticized the organization of the EAs, saying that it was confusing to find certain topics discussed in more than one chapter.

Response

The organization of the EAs was based on (1) the requirements of the Act, which specifies, in Section 112(b)(E), the evaluations, descriptions, and analyses that are to be included; (2) the requirements of the siting guidelines, which specify the order of certain evaluations (e.g., the identification of the preferred site in a geohydrologic setting); and (3) the general format and content usually followed in preparing environmental assessments.

Thus, Chapter 2 includes an evaluation of the site against the disqualifying conditions of the guidelines as required by the guidelines; for completeness, this evaluation is repeated in Chapter 6, which presents the Act-mandated evaluation against the guidelines. Chapter 7, which is also required by the Act, of necessity repeats some material contained in Chapter 6, though in a greatly abbreviated form. The repetition is unavoidable because Chapter 7 is essentially a summary compilation and comparison of the data presented in Chapter 6 for every site. A few commenters felt that the EAs should include more information in Chapter 5 about the financial effects of site characterization and repository development on local communities and the grant programs applicable to individual sites.

Issue

One commenter asserted that the analyses performed by a former DOE contractor that was fired for unsatisfactory performance were nonetheless used to substantiate the draft EAs.

Response

The commenter is incorrect in asserting that the work of a "fired" DOE contractor was used to substantiate the draft EAs. The DOE contractor in question was a general program-management contractor that prepared area-characterization studies. This contract expired and was opened for bids according to Federal procurement regulations. The contractor was not selected for further work, but was not dismissed for unsatisfactory performance as the commenter alleges. The DOE considers the analysis performed by this contractor to be valid and useful.

Issue

Some commenters suggested that technical review groups should be assembled to verify the data, procedures, assumptions, and conclusions in the draft EAs.

Response

Technical review groups were used to review the EAs at several levels. Such groups were used by the DOE Project Offices that prepared the EAs, by the Office of Civilian Radioactive Waste Management and its contractors, and by the Office of Environmental Compliance of the DOE's Assistant Secretary for Environment, Safety and Health.

Issue

Some commenters objected that, although a significant percentage of the residents in the area of Swisher and Deaf Smith Counties, Texas, are Spanish-speaking, the reports were released only in English.

Response

To translate documents as long and complex as the EAs would require an expenditure of time and resources that could not be justified. However, the DOE is preparing a variety of public-information materials in Spanish in response to requests to provide information to the Spanish-speaking residents of Texas. The DOE expects that, by being prepared especially for the general Spanish-speaking public, these materials will prove to be a more practical means of access to information about the program than the EAs.

Issue

Some parties suggested that the DOE publish an abbreviated version of the EAs.

Response

Like the final EAs, the draft EAs contained an executive summary that briefly described the site, the process by which it was selected, and its evaluation against the guidelines. These executive summaries were also distributed separately as overviews. Overviews are also available for the final EAs.

Issue

Commenters complained that the DOE issues inaccurate reports, expecting the States and the general public to find the inaccuracies without paying for these services. Others said that the EAs are propaganda for the program and do not present scientific findings.

Response

The DOE tried hard to ensure that the draft EAs were correct, including several reviews by the DOE, its contractors, and peer review groups. However, in documents of the size and the scope of the EAs, some errors are bound to occur.

The objective of issuing the draft EAs, which was not required by the Act, was to increase the participation of the public in the siting process and to apprise the public of the bases for decisions in the siting process. Though the DOE is pleased to acknowledge the many helpful contributions made by the commenters, in no sense did the DOE view the publication of draft EAs as a means of obtaining free services from the general public.

Issue

Some commenters expressed the view that the technical inaccuracies in the EAs caused the public to lose confidence in the entire process.

Response

The draft EAs represent the best available information. In accordance with the Act, they were prepared before site characterization and hence before many site-specific data were available. During site characterization and the concurrent environmental and socioeconomic studies, the DOE will collect the detailed information required to demonstrate compliance with the guidelines and with NRC and EPA regulations. Even with thorough and repeated critical reviews by different parties, some technical inaccuracies are unavoidable in documents as large and complex as the draft EAs, especially since some of the analyses were based on information from the literature rather than studies performed at the site. As already mentioned, every effort was made to correct the inaccuracies in the final EAs.

Issue

Some commenters objected to the use of averages instead of worst-case scenarios in the EAs.

Response

The use of averages is appropriate, especially for this stage in the site-selection process. For nomination and recommendation of sites for characterization, the siting guidelines (10 CFR Part 960) require only that the evidence available does not support findings that the sites are unsuitable. At any stage, worst-case analyses that are not accompanied by information on the probabilities of those cases are inappropriate. The EPA has recognized the latter fact in its environmental standards for the disposal of spent fuel and other wastes. In those standards, specific probabilities of compliance--representative of less than worst-case scenarios--are required.

C.2.7.2 Supporting references

A number of comments were directed at the references that support the analyses and results presented in the EAs. Among these were comments objecting that these references were not available to the public or that the quality of the references was poor.

Issue

Some persons stated that the public was not able to participate fully in the evaluation of the EAs because it was not provided with the data base that supports the decisions.

Response

The reference documents for the draft EAs are available in the public reading rooms of DOE Headquarters and Project Offices (see Appendix B) and were mailed to each affected State and Indian Tribe for review.

Issue

Commenters said that some of the references that supported the draft EAs were either completely unavailable or were not released until half-way through the 90-day comment period. This delayed release did not allow the States and interested parties adequate time for review.

Response

The DOE made every effort to make references available for public review by collecting them in DOE public reading rooms. Some of the references were in draft form at the time the draft EAs were published and were not available for public review until later in the comment period. These were added to the collection as they became available. All references cited in the final EAs are available for review at the locations listed in Appendix B.

Issue

Some commenters contended that the quality of the references was poor; some analyses relied on personal communications for support, rather than published documents.

Response

In the absence of published data, it was occasionally necessary to rely on documents in preparation or on personal communications from the investigators performing the analyses for the EA. Personal communications, DOE memoranda, and DOE correpondence were also used to document the site-selection process, and communications obtained in interviews with representatives of local governments were used as sources of information about local conditions (e.g., availability of community services) for which no published data are available. These informal references could have been cited parenthetically in the text or presented in footnotes. The DOE decided, however, to treat them as formal references and to make them available to the public together with the formal references to published documents. The locations where these references are available for review are given in Appendix B.

Issue

Commenters requested that a list of references for Chapter 7 be included in the EAs.

Response

Since Chapter 7 is based on the information given in Chapter 6 and does not rely on additional sources of data, no references are included. Otherwise it would have been necessary to combine five long lists of references (those presented in Chapter 6 of the EAs for the nominated sites). The reader interested in the supporting data for the findings on which Chapter 7 is based should refer to the section of Chapter 6 that covers the particular guideline of interest.

Issue

A commenter requested that the final EAs list the locations where copies of the references cited in the EAs can be examined.

Response

At the public briefings held in each affected state, the DOE distributed booklets listing the locations where copies of draft-EA references were available. In response to the above request, a list of all locations where copies of references can be examined is given in Appendix B of the final EAs.

Issue

Some commenters pointed out that additional reference material was submitted for DOE review and requested that specific reports and lists be used in the final EAs.

Response

The DOE recognizes and appreciates the efforts expended in sending materials for review. The documents were directed to the appropriate EA authors to be considered in revising the EAs.

During the Utah hearings, several persons read pages from the log book for visitors to the Canyonlands National Park. The comments of the tourists were entered into the official EA comments and were considered in reanalyzing for the final EA the potential effects of a repository on tourism.

References that were not within the scope of the Civilian Radioactive Waste Management Program were forwarded to the appropriate persons in other DOE programs.

C.2.7.3 Content of the environmental assessments

Issue

Among the comments was the objection that the draft EAs did not list the rankings of all nine sites studied.

Response

As discussed in Chapter 1 of the environmental assessments, the siting guidelines specify the following steps for ranking the potentially acceptable sites:

1. Evaluate the potentially acceptable sites in terms of the disqualifying conditions specified in the guidelines.

2. Group all potentially acceptable sites according to their geohydrologic settings.

3. For those geohydrologic settings that contain more than one potentially acceptable site, select the preferred site on the basis of a comparative evaluation of all potentially acceptable sites in that setting.

4. Evaluate each preferred site within a geohydrologic setting and decide whether such site is suitable for the development of a repository under the qualifying condition of each applicable guideline.

5. Evaluate each preferred site within a geohydrologic setting and decide whether such site is suitable for site characterization under the qualifying condition of each applicable guideline.

6. Perform a reasonable comparative evaluation under each guideline of the sites proposed for nomination.

Because one site is selected in each geohydrologic setting that contains more than one site, it is not consistent with the siting guidelines to rank all nine potentially acceptable sites.

Issue

Some persons felt that the EAs did not adequately consider the religious attitudes of Indians about land.

Response

The DOE recognizes the need to identify and respect Indian values and is in the process of developing a programmatic memorandum of agreement with the Advisory Council on Historic Preservation. The agreement will ensure the consideration of Indian religious freedom under the American Indian Religious Freedom Act. In revising the EAs, Indian cultural values have been considered. The EA for the Hanford site notes that the Yakima Indian Nation has extensive historical and spiritual ties to the land on which the site is located.

Issue

Several commenters said that the draft EAs did not consider the impacts of site characterization on Indian Tribes, ceded lands, and treaty rights to off-reservation fishing.

Response

As explained in Chapter 4 of the EA for the Hanford site, the DOE believes that Indian Tribes will not be significantly affected by site characterization.

Issue

Commenters stated that discussion of the siting process for the first repository was deficient in the draft EA. Because siting decisions were made before the Act was passed and before the publication of the guidelines, the DOE should discuss the basis for these decisions in the draft EA.

Response

The siting decisions made before the publication of the guidelines were based on criteria similar to the guidelines. The bases for these decisions are discussed in detail in the documents cited in Chapter 1 of the EAs. A more detailed discussion of the process in Chapter 1 is therefore unnecessary.

Issue

Specific suggestions for improving the EAs included the addition of a glossary and a key-word index.

Response

A glossary was included in the draft EAs, as it is in the final EAs. However, because of the limited time available to prepare and revise these documents, it was not possible to add a key-word index.

Issue

A number of commenters suggested specific revisions to Chapter 1 of the draft EAs. Some of those suggestions were editorial; some were specific suggestions applicable to only one site. The suggested general changes can be summarized as follows:

1. Chapter 1 should describe how the DOE would substitute sites for those eliminated by characterization.

2. Chapter 1 should point out that the Act requires the DOE to issue the site-characterization plans for review by the States and the public as well as the NRC.

3. Chapter 1 should be revised to indicate that site characterization begins only after the completion and review of site-characterization plans and public hearings.

4. Chapter 1 should mention the right of an affected Indian Tribe to issue a notice of disapproval.

Response

In response to the first three comments, Chapter 1 was revised as appropriate.

In regard to comment 4, the Act allows an affected Indian Tribe to issue a notice of disapproval if a proposed site is located on its reservation (Section 118(a)). However, none of the potentially acceptable sites is located on any Indian reservation, and although the DOE welcomes their participation in the repository program as affected Indian Tribes, the Indian Tribes do not have the statutory authority to issue a notice of disapproval.

Issue

One commenter said that the EAs should include a detailed explanation of how the entire process is funded.

Response

The DOE's program for the management of civilian radioactive waste is funded from the Nuclear Waste Fund, which was established by Congress and consists of monies paid into the fund by the utilities that generate the radioactive waste. A more detailed explanation of the funding is given in the Mission Plan (DOE, 1985a).

Issue

One commenter felt that the EAs should include more information in Chapter 5 about the financial effects of site characterization and repository development on local communities and the grant programs applicable to individual sites.

Response

The socioeconomic impacts expected during site characterization are discussed in Section 4.2 of the EAs, which also explains what financial assistance would be available to the affected community.

The impacts expected during repository development are examined in Section 5.4.5 of the EAs; this section includes a discussion of the financial assistance that will be available. Information on financial assistance can also be found in the DOE's Mission Plan (DOE, 1985a, Vol. I, Part I, Chapter 4). (See also Sections C.2.1.2 and C.2.1.5.1 for comments and responses on the mitigation of fiscal and socioeconomic impacts.)

Issue

Some commenters said that more-detailed schedules are needed in the final EA.

Response

The EAs do not contain detailed schedules because the latter are given in the Mission Plan (DOE, 1985a) and the draft Project Decision Schedule (DOE, 1985b). The schedules of activities for site characterization will be presented in greater detail in the site-characterization plans. Plans and schedules for the environmental, socioeconomic, and transportation studies to be conducted concurrently with site characterization are also being prepared.

Issue

A commenter felt that the discussion of qualifying conditions in the EAs is given more prominence than the discussion of the disqualifying conditions.

Response

Disqualifying conditions describe conditions that are considered so adverse as to constitute sufficient evidence to conclude without further consideration that a site is disqualified; they were formulated to provide early evidence of the suitability of a site and hence require fewer data and less-complex analyses than do the qualifying conditions. They are discussed in both Chapter 2 and Chapter 6 of the EAs.

Issue

Some commenters asked that more information be included in the EAs about the program for public education and participation.

Response

The program for public information and participation is explained in detail in the DOE's Mission Plan (DOE, 1985a, Vol. I, Part I, Chapter 4). (See also Section C.2.1 for comments and responses on this topic.)

Issue

Commenters requested that the discussion of the guidelines in the EAs be clarified.

Response

The format, structure, purpose, and application of the guidelines in the EAs are discussed in Section 6.1. Additional information can be obtained from the "Supplementary Information" on the guidelines themselves (DOE, 1984c) or from the DOE's responses to comments on the proposed guidelines (DOE, 1983).

Issue

Commenters suggested that an appendix listing all EA authors and their qualifications should be added to the EAs.

Response

A list of contributors is not included in the EAs because a fair and comprehensive list would consist of hundreds of names. To prepare such a list of persons who contributed to the EAs would be a task requiring a great deal of time. The commenter can be assured, however, that the contributors to the EAs are qualified and experienced professionals, and many of them have earned distinction in their scientific discipline.

C.2.7.4 Inconsistencies in the environmental assessments

Inconsistencies in the EAs were the subject of many comments, which noted inconsistencies in the assumptions about the age of the spent fuel, the waste package, the exploratory shafts and the shafts for the repository, the descriptions of surface facilities, assumptions used in radiological assessments, the models and assumptions used in analyses of socioeconomic impacts, analyses of worker health and safety, and several other topics.

Issue

A number of commenters pointed out inconsistencies between the executive summaries and the corresponding chapters in the draft EAs.

Response

There were indeed some inconsistencies, resulting mainly from a failure to update the executive summaries after the last revision (one of several) of the draft EAs. In revising the final EAs, the executive summaries were corrected to reflect the corresponding chapters.

Issue

Some commenters pointed out that the draft EAs were inconsistent in their presentation of air-quality impacts. For example, the EA for the Deaf Smith site considers vehicle emissions and fugitive dust in evaluating the impacts

of repository operation, whereas the EA for Davis Canyon does not do so. The draft EAs were also said to be inconsistent in their treatment of regulations for the Prevention of Significant Deterioration (PSD).

Response

The air-quality evaluations for each site have been revised as a result of comments from the States, the public, and other Federal agencies; the results are presented in a format that is as consistent as possible. Some differences remain, however, because the evaluations must use available data, which can vary among the different sites, and because the air-quality regulations are implemented by different agencies for each site. The revised impact analyses have reconsidered air-quality models, inputs (e.g., vehicle emissions, fugitive dust), operating assumptions, and PSD applicability according to guidance from the appropriate regulatory agencies.

Issue

Many commenters said that the EAs need to provide a fuller and more realistic discussion of socioeconomic impacts and to expand the discussion of mitigation measures. They also need to address the positive socioeconomic impacts of a repository.

Response

Chapter 5 of the EAs addresses general provisions for financial and technical assistance to mitigate adverse socioeconomic impacts. Site-specific mitigation measures will be developed after the DOE has performed a detailed impact analysis and the affected State or Indian Tribe has submitted an impact report for the site recommended for repository development. (See also Sections C.2.1.2.4 and C.2.1.5 for comments and responses on this topic.)

The EAs also address some of the positive socioeconomic impacts of a repository, such as the potential for new local jobs, total project and local purchases, and likely sources of additional tax revenues. The final EA for the Hanford site also discusses the potential for greater use of the area's available human and physical resources.

Issue

Some commenters criticized the EAs for using different approaches and bases for the socioeconomics analyses--in particular, different labor-force estimates, different multipliers for the indirect employment expected to result from the repository, and different assumptions about the in-migration of repository workers. One comment objected that no adequate explanation was given in the EAs for the differences in the employment and in-migration estimates and stated that the population increase estimated in the EA for the Yucca Mountain site appears to be due to an "overly conservative analysis."

Response

It is true that the EA analyses for the different host rocks used different labor-force estimates, employment multipliers, and assumptions about in-migration. However, some of the differences to which the commenters object

are unavoidable because of differences in the design of the repository, the availability of data, and local conditions, which vary significantly among sites. Furthermore, the socioeconomic analyses were performed by several different groups of analysts, who used assumptions and multipliers they deemed most suitable for the socioeconomic conditions of the site and the available data.

The population increase estimated for the Yucca Mountain site did indeed differ greatly from that for the other sites, but a significant part of this difference was attributable to the larger work force required for a repository at Yucca Mountain. The work force estimated in the draft EA for Yucca Mountain was as much as three times the work force estimated for the other sites. In the final EA for Yucca Mountain, the work-force estimate is lower, and so is the population increase projected for southern Nevada. The employment multiplier, while higher than that for the other sites, is the most reasonable multiplier for southern Nevada and is based on published analyses of historical data on employment in southern Nevada. The assumption that all of the repository workers would in-migrate was recognized and identified as being conservative in Chapter 5 of the draft EA for Yucca Mountain. It was chosen because detailed information about labor skills was not available and because it allowed the DOE to estimate the worst-case impacts on community services.

For the Hanford site, the socioeconomic analysis presented two scenarios. A maximum population estimate was based on an assumption of 100 percent in-migration, and a more likely estimate assumed that 75 percent of the miners and 25 percent of all other workers would in-migrate. The employment multiplier used was only slightly lower than that for Yucca Mountain. Again, the 100 percent maximum estimate was used to present a conservative analysis that would demonstrate that even worst-case impacts would be insignificant in this area, which has an excess of housing and public services.

For the salt sites, the lack of local socioeconomic data for a project as large as a repository led to an approach based on data for the study area and the use of multipliers from the literature (energy developments in the western States and projects of the Tennessee Valley Authority). This approach produced a high and a low range of estimates for in-migration and the associated impacts. The case of high in-migration was selected as a realistic, though conservative, case and was used for the impact analysis. Unlike the Hanford and Yucca Mountain sites, an assumption of 100 percent in-migration for the salt sites would have been inappropriate considering the socioeconomic conditions of the study area. It would have produced unrealistic overestimates of population increases in the smaller communities near the sites.

Issue

One commenter noted that the draft EAs are inconsistent in their treatment of worker health and safety. In particular, the following inconsistencies were pointed out:

1. The EAs for Yucca Mountain and Hanford present estimates of expected worker injuries and fatalities during site characterization, while the EAs for Davis Canyon, Deaf Smith, and Richton present estimates of only injury and fatality rates.

2. The Yucca Mountain analysis uses 1982 statistics provided by the National Safety Council. The Hanford analysis is based on a 1980 DOE report, while the Davis Canyon, Deaf Smith, and Richton analyses used 1976-1979 statistics from the Mine Safety and Health Administration (MSHA).

3. The EA for the Hanford site discusses occupational safety and health in Chapter 5, including specific numbers of expected injuries and fatalities during mining and construction. The EAs for Davis Canyon, Deaf Smith, and Richton give only rates. The EA for Yucca Mountain has no such analyses in Chapter 5.

4. The EAs for Hanford and Yucca Mountain discuss occupational safety in Section 6.3.3.2. The other three EAs do not.

5. The EAs for Hanford, Davis Canyon, Deaf Smith, and Richton discuss the applicability of various Federal and State occupational safety and health regulations. The EA for Yucca Mountain does not.

Response

The draft EAs for Hanford, Yucca Mountain, and the salt sites used different sources for their safety analyses. Hanford cites DOE Order 5480.1A, Yucca Mountain cites the National Safety Council (NSC), while the salt-site analyses are based on injury experience reports from the MSHA. Nonetheless, the estimates of fatalities, accident rates, etc., are not inconsistent. There is a direct correlation between the various sources.

From 1930 through 1977, MSHA statistical measures for injuries in mining used a basis that was somewhat different from that for the other industries. However, beginning with calendar year 1978, the MSHA adopted measures for injury experience that compare closely with the measures used in the Office of Occupational Safety and Health Statistics, the Bureau of Labor Statistics, and the U.S. Department of Labor. Therefore, beginning with 1978 data, the mining industry can be compared on a standard basis with other U.S. industries.

The MSHA requires all mine owners to report all accidents to the district office on a prescribed form. Because of the modification in reporting and processing procedures that became effective January 1, 1978, injury rates as currently computed are not precisely comparable to those of the previous years. Fatality rates, however, in which the "incidence rate" (the term used after 1977) is one-fifth of the "frequency rate" (the term used before 1978) for otherwise similar grouping, remain comparable.

The statistical data in the MSHA reports cover the work experience of all personnel engaged in exploration, development, production, maintenance, repair, and construction work, including supervisory and technical personnel, and onsite office workers. These activities cover the entire spectrum of the exploratory-shaft activities and, as such, are a better tool for statistical

projections of probable exploratory-shaft injuries. As compared with the reported accidents in the MSHA report, the National Safety Council uses sampling techniques for projections of probable injury experience.

The NSC statistics show that in 1982 there were 600 fatalities for 1.1 million workers in the mineral-extraction industry (including quarries). This figure reduces to 0.05 per 200,000 man-hours and compares with 0.06, 0.04, and 0.3 in MSHA's reports for the years 1976, 1977, and 1978, respectively. Similarly, the NSC statistics show 3.1 nonfatal injuries with days lost, which compares with 3.87, 3.78, and 5.48 such injuries reported by the MSHA for the 3 years. The NSC projected 4.7 total injuries per 200,000 man-hours for 1982, which compares with 5.96, 5.73, and 8.81 total injuries for the 1976-1978 period.

The final EA for Yucca Mountain includes a discussion in Chapter 5 of occupational health and safety.

Issue

Some commenters stated that the analyses for all sites should be based on the assumption of 10-year-old spent fuel because this assumption is likely to be conservative and will provide a common basis for comparison.

Response

All analyses in Sections 6.4.1 and 6.4.2 of the final EAs are based on the emplacement of spent fuel that is 10 years old.

Issue

One commenter recommended that the assessments of preclosure radiological safety under normal conditions should be based on similar assumptions about failed fuel rods.

Response

The analyses presented in the final EAs are based on the conservative assumption that 0.5 percent of the fuel rods arriving at the site have failed.

Issue

Several parties commented that, in estimating waste-package failure, all EAs should assume that failure occurs when some portion of the container wall corrodes, not necessarily the entire thickness.

Response

The approach suggested by the commenters is used in the Hanford EA and in the EAs for all of the salt sites. The approach of the Yucca Mountain EA was to use a simple estimate that is based on expected conditions, taking into account that few data have yet been obtained for repository conditions at Yucca Mountain. Thus, although the estimates indicate a lifetime of 30,000 years, the value actually used is 3,000 years to provide a very conservative lower bound for container lifetime.

Issue

Some commenters complained that comparisons among the sites are difficult because the EA analyses are based on different container designs.

Response

The design of the container depends on the characteristics of the site. For example, one of the criteria for design is usually the peak rock temperature, which depends on both the thermal properties of the rock and the amount of heat generated by the waste in the container. Therefore, container sizes and designs are different for different rock types, and the assumption of a common canister size or design in the EAs would not facilitate valid comparisons among the sites. For this reason, the EAs were not changed to reflect a common canister size or design.

Issue

One commenter stated that variations in container-design criteria need to be explained or justified in the EAs.

Response

Each of the repository projects is developing waste-package designs to meet the NRC's requirement for a container lifetime of 300 to 1,000 years and a radionuclide-release rate of less than 10^{-5} per year.

Issue

Several commenters asserted that the analysis and findings in the draft EAs did not reflect sufficient conservatism, considering the lack of site-specific data on which to base site nomination and recommendation decisions.

Response

Where no site-specific data were available, the EAs used extrapolations of regional data or conservative assumptions, in accordance with the DOE siting guidelines. A conservative approach was taken in evaluating the site characteristics that are important to the performance of the repository.

Issue

One commenter noted that the draft EAs differ in the number and the size of shafts drilled for site characterization and repository operations and said that the DOE should explain the technical basis for these variations.

Response

The draft EAs for the Yucca Mountain and the salt sites presented analyses based on the sinking of only one exploratory shaft. At the time the draft EAs were published, the DOE had already decided to sink two shafts at each site, but there was no time to revise the analyses in the draft EAs. The

construction of a second shaft would not significantly increase the impacts of site characterization. The final EAs have been revised to account for two shafts at all sites.

The number of shafts required for the repository depends on the host rock; thus the numbers of shafts is different for a repository in basalt, salt, or tuff.

Issue

One commenter stated that the surface-facility descriptions for all of the EAs should be the same, or the variations should be explained.

Response

The surface facilities of a repository depend partly on site-specific conditions, such as the terrain, and partly on the host rock; the host rock determines the number and size of shafts, the layout of the underground repository, the ventilation requirements, and similar factors that affect the design and layout of some surface facilities. Thus the surface facilities vary for repositories in basalt, salt, and tuff.

C.2.8 MISCELLANEOUS

Many of the comments in the draft EAs covered various topics, many of which were not concerned with the nomination of sites or even repository siting in general. These comments have been divided into three categories: production of radioactive waste, alternatives to geologic disposal, and general technical issues.

C.2.8.1 Production of radioactive waste

Several commenters maintained that the production of nuclear energy should never have been begun without establishing a method for radioactive-waste disposal. Many commenters recommended that the production of nuclear energy and thereby the production of radioactive waste be stopped until a solution is found for the permanent disposal of radioactive waste.

Issue

Commenters expressed the opinion that the production of nuclear energy should not have been begun before the development of a method for the permanent disposal of the radioactive waste.

Response

The search for suitable methods of permanent disposal began early in the development of nuclear energy. By 1957, for example, the National Academy of Sciences had already recommended geologic disposal in salt formations. Furthermore, in the early days of nuclear-energy development, it was generally

assumed that spent fuel would be reprocessed after being discharged from the reactor. The spent-fuel rods were stored in water pools at the sites of the reactors pending the start of reprocessing, and until the U.S. moratorium on reprocessing was declared in 1976 (see Section C.2.5.3), there was little incentive to develop disposal methods for spent fuel.

Issue

Commenters requested a moratorium on the production of commercial radioactive wastes.

Response

The production of electricity by nuclear energy is important to the national economy. In 1984, nuclear energy provided about 14 percent of the U.S. domestic electricity (DOE, 1985i). Nuclear energy is able to provide economical electric power, independent of foreign energy sources, while allowing the conservation of fossil-fuel reserves for other critical applications; it can help meet the future energy needs of this country. A moratorium on nuclear-energy production would severely damage U.S. energy and economic security.

Furthermore, a moratorium on radioactive-waste production would not remove the need for a repository. A large inventory of spent fuel has been accumulating at reactor sites. According to recent estimates, over 12,000 metric tons of spent fuel currently require disposal and over 130,000 metric tons will require disposal by the year 2020 (DOE, 1984d).

C.2.8.2 Alternatives to geologic disposal

Many comments suggested methods of disposal other than geologic repositories. Other commenters expressed concern that the DOE has not adequately considered all feasible options for disposal, such as disposal in space or beneath the seabed.

Issue

Some commenters wanted to know whether the DOE has considered space as a safe and feasible method for radioactive-waste disposal.

Response

Before deciding on geologic repositories, the DOE evaluated many alternative waste-disposal concepts, including space disposal (DOE, 1980). The DOE, in conjunction with the National Aeronautics and Space Administration (NASA) and others, studied the space-disposal concept, but did not favorably consider launching radioactive wastes into the sun because of excessive fuel requirements. Disposal on the moon was also rejected as an alternative because it might interfere with future lunar exploration. NASA's favored concept was to place high-level waste into a solar orbit about halfway between the Earth and Venus. This concept would use space shuttles to place the packaged waste into the appropriate solar orbit.

While the volume and weight of high-level radioactive waste are relatively small when handled on Earth, the cost would be enormous to launch all of the wastes into space. A fundamental requirement for space disposal is to separate the waste into short-lived and long-lived portions. The short-lived waste that would decay to innocuous levels in hundreds of years would be managed on Earth. Only the long-lived waste, which must be isolated for thousands of years, would be disposed of extraterrestrially. Therefore, disposal in space would only reduce, not eliminate, the need for terrestrial waste management.

The results of these studies led the NASA and the DOE to conclude that further study of space disposal is not warranted at this time. The reason for this conclusion was the expected additional cost of space disposal without achieving a significant reduction in long-term risk in comparison with the risk of disposal in a geologic repository. The concept of space disposal will be reconsidered if, at some future time, the DOE's program for waste-disposal technology or space-technology developments by NASA warrant the need for further study.

Issue

The DOE should consider disposal in relatively thick, stable beds of sediments located in deep, quiet, and remote regions of oceans or disposal in volcanic trenches throughout the world.

Response

The DOE is sponsoring a subseabed-disposal project as part of a multinational effort through Fiscal Year 1986. The disposal of high-level waste in the oceans has never been practiced by the U.S. Government and was prohibited by the Marine Protection, Research, and Sanctuaries Act of 1972 and under the London Convention on the Prevention of Marine Pollution by Dumping Wastes and Other Matter. The uncertainties and issues to be resolved regarding subseabed disposal are significant, and efforts to resolve them are under way.

Issue

A number of comments requested the DOE to start over with a safe answer to the problem of radioactive-waste disposal. It was noted that the concept of geologic repositories was developed in the 1950s. Many comments suggested that the DOE should accept new technology as it becomes available, and some commenters said that research and development on alternative methods of disposal should continue.

Response

A number of methods for the disposal of high-level radioactive waste have been examined by the Federal Government during the past 10 years, including subseabed, deep-hole, ice-sheet, and outerspace disposal. Of these alternative technologies, only subseabed disposal is currently funded by the DOE. The remaining alternative concepts were found to have no obvious advantages over geologic disposal. The primary consideration in evaluating these alternative technologies was public health and safety. The state of

technology, the potential environmental impacts, and suitability for spent-fuel disposal have been studied for each of these methods and are discussed in the final environmental impact statement for the management of commercially generated radioactive waste (DOE, 1980).

C.2.8.3 General technical issues

A number of comments addressed technical issues that are not site specific. There were a large number of such issues, and they covered a broad range of subjects, including the accuracy and conservatism of the analyses used in the EAs, conditions at the repository site after closure, etc.

Issue

Some persons asked whether a large number of small disposal facilities would be safer.

Response

No clear reduction in risk would result from using a large number of smaller repositories. No net advantages would be realized in terms of monitoring the performance of the repositories. While there may be some reductions in costs of transportation, these would be greatly outweighed by the extra cost of finding and qualifying a larger number of repository sites and developing many repositories.

Issue

Several commenters felt that a burden is placed on future generations for the disposal of the wastes.

Response

Geologic disposal was chosen for high-level waste and spent fuel because it minimizes the potential burden on future generations. Once the repository is closed, there is no need for maintenance. The use of geologic formations as barriers to radionuclide migration helps to ensure that there will be no significant health burdens to future generations even if the waste containers are eventually breached.

Issue

Some commenters said that the DOE needs to consider how it will prevent human intrusion over the long term.

Response

The DOE feels that human intrusion can be prevented through prudent siting in locations that have few, if any, natural resources and through institutional management. Several years ago, the DOE convened a human-interference task force to determine whether reasonable means exist (or

could be developed) to reduce the likelihood of unintentional human intrusion into a repository. The task force concluded that a significant reduction in the likelihood of human intrusion could be achieved, for perhaps thousands of years into the future, if appropriate steps are taken to communicate the existence of the repository to future generations.

Issue

One person asked whether the conclusions in the EAs on compliance with the guidelines are supportable.

Response

At the steps of site nomination and recommendation, the requirement for disqualifying conditions is evidence that does not support a finding that the site is disqualified. Likewise, the qualifying conditions are deemed to be present if the evidence does not support a finding that the site is not likely to meet the qualifying condition. The DOE believes that the available data and analyses for each site indicated that no site has a disqualifying condition and that all sites are likely to meet all the qualifying conditions.

Issue

One commenter asked whether the DOE can guarantee that no new mutations will occur from the waste-emplacement practices.

Response

Absolute guarantees are hardly ever possible, but the DOE believes that new mutations are extremely unlikely because there is very little likelihood that radioactive materials from the repository will reach the human environment.

Issue

One person asked whether the hydrogeologic conditions will be known well enough to make predictions over 10,000 years or more.

Response

At the time of application for a license for the repository, which comes after thorough site characterization, the hydrogeologic environment at the site will be well known. Not only will nominal values be determined for the parameters needed to predict the migration of radionuclides from the repository but also the uncertainties in those values due to measurement uncertainties and nonhomogeneous rock properties will have been determined.

Issue

One party asked whether the DOE plans to close the site without subsequent monitoring or retrieval.

Response

The DOE currently plans to be able to begin retrieval for up to 50 years after the start of waste emplacement and to monitor the site for some period, not determined at present.

Issue

One commenter noted that canisters need to stay intact for 300 years but monitoring will be for 50 years.

Response

The monitoring referred to by the commenter apparently is the 50-year period of waste retrievability and plans to monitor selected individual waste containers until the repository is closed; the objective of monitoring individual containers is to confirm their performance. Monitoring the containers after repository closure would be very difficult and could compromise the performance of the repository as a whole.

Issue

Some persons asked about the measures that will be used to protect the integrity of the controlled area for long periods after closure.

Response

At present, placing some form of physical markers around the site is the most likely method for notifying future societies of the presence of a repository. In addition, records will be kept.

Issue

Hanford will be accepting 60 percent of the Nation's defense waste.

Response

Whatever site is chosen for the first repository, it will receive up to 10,000 metric tons uranium equivalent of defense high-level waste.

Issue

One commenter said that phased repository construction will circumvent the NRC's requirement to review and approve complete site construction before accepting any waste for disposal.

Response

The Act (Section 114(d)) states that "the Commission shall consider an application for construction authorization for all or part of a repository...." Therefore the Act does not prohibit authorization for phased construction. The DOE has discussed this concept with the Nuclear Regulatory Commission and has received no objections to the concept. The sequence of license applications is described in the Mission Plan (DOE, 1985a).

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C.3 SITING PROCESS AND DECISIONS

This section addresses comments on the siting process and decisions. It covers issues related to site screening and the siting guidelines (Section C.3.1), the evaluation of sites against the disqualifying conditions of the guidelines (Section C.3.2), the grouping of sites into geohydrologic settings and the selection of the preferred site for each setting (Section C.3.3), and the nomination and recommendation of sites for characterization (Section C.3.4). The section on nomination and recommendation is concerned with general issues related to the DOE's approach in selecting the sites proposed for nomination and recommendation in the draft EAs and with issues related to the comparative evaluation and ranking of sites. It does not include issues related to the evaluations of individual sites; these issues are addressed in Sections C.5 though C.8. With a few exceptions, Section C.3 addresses comments on Chapters 1, 2, and 7 of the draft EAs.

C.3.1 SITING GUIDELINES AND SITE SCREENING

Addressed in this section are comments on the DOE's siting guidelines, published as 10 CFR Part 960 on December 6, 1984 (DOE, 1984), and comments on site-screening issues. The latter are divided into two parts: general site-screening issues (Section C.3.1.2) and issues specific to a particular host rock or site (Section C.3.1.3).

C.3.1.1 The siting guidelines

Most of the comments on the DOE's siting guidelines (10 CFR Part 960) addressed general issues like the development of the guidelines, the timing of their publication, and their adequacy. These are summarized and answered in Sections C.3.1.1.1, C.3.1.1.2, and C.3.1.1.3, respectively. Comments on specific guidelines are covered in Section C.3.1.1.4.

C.3.1.1.1 Development of the guidelines

The development of the guidelines drew comments and questions from several parties who were concerned about the derivation of the guidelines, the level of State involvement, and the content of the guidelines.

Issue

Several parties questioned the origin and the derivation of the guidelines.

Response

After the Act was passed, the DOE assembled a task force of program experts to prepare proposed guidelines. The task force began by considering the criteria used earlier in the National Waste Terminal Storage (NWTS)

Program, including program objectives, system-performance criteria, and site-performance criteria (DOE, 1981, 1982); other sets of criteria defined for geologic repositories by the National Academy of Sciences (NAS, 1978), the International Atomic Energy Agency (IAEA, 1977), and earlier programs in the United States (Brunton and McClain, 1977; DOE, 1980); advance information made available by the NRC (1980); and the requirements of the Act.

In the development the proposed guidelines, great care was taken to make them compatible with the existing applicable regulations of the Environmental Protection Agency (EPA), published as 40 CFR Part 190 (EPA, 1977) and the Nuclear Regulatory commission (NRC), published as 10 CFR Part 20 (NRC, 1960) and with the regulations that had been recently proposed by the NRC and the EPA concerning the disposal of high-level radioactive waste and spent nuclear fuel in geologic repositories. The NRC had by then nearly completed the pertinent technical criteria for geologic repositories, 40 CFR Part 60 (NRC, 1982), and the EPA had issued, for public comment, proposed environmental standards, 40 CFR Part 191 (EPA, 1982).

Several draft versions of the siting guidelines were released: the proposed guidelines of February 1983 and the alternative guidelines of May 1983, both of which were issued for review and comment by the States, affected Indian Tribes, and the public; the revised guidelines of August 1983, which served as a basis for additional consultation with States, Indian Tribes, and Federal agencies; and the revised guidelines of November 1983, which were sent to the NRC for concurrence. The NRC held several meetings on the guidelines at which the DOE, States, affected Indian Tribes, and Federal agencies presented comments.

The revisions that resulted from this comment and consultation process are discussed in the "Supplementary Information" for the guidelines (DOE, 1984, pp. 47714-47751) and in the comment-response document for the guidelines (DOE, 1983). After NRC concurrence, the guidelines were published in final form (December 1984), and many copies were distributed to States, Indian Tribes, and the public.

Issue

Some commenters asked about the level of State involvement in developing the guidelines.

Response

As explained in the "Supplementary Information" for the guidelines (DOE, 1984, pp. 47717-47720), the siting guidelines were developed after two formal public-comment periods and two rounds of consultation with the interested States, including both separate meetings with individual States and plenary sessions. The comments submitted by the States on the proposed guidelines of February 7, 1983, led to a division of the guidelines into postclosure and preclosure guidelines and to the addition of the implementation guidelines. Many other changes were made to the guidelines in response to comments from the States. In addition, the States and Indian Tribes had opportunities to provide comments to the NRC during the concurrence process.

Issue

One commenter asserted that the DOE intentionally slanted the content of the siting guidelines to favor the selection of a particular site.

Response

The guidelines were not prepared with the intent of selecting any particular site for the first repository. The purpose of the guidelines is to provide an objective framework for ensuring that potential repository sites meet the standards established for radioactive-waste disposal.

C.3.1.1.2 Time of publication

A number of comments addressed the timing of the publication of the siting guidelines, both in relationship to the site-screening process and the publication of the pertinent EPA and NRC regulations.

Issue

Several commenters inquired why the publication of the final siting guidelines was delayed.

Response

The DOE realized that it was important to get public and State input on the content of the guidelines. This was a time consuming process, but the DOE thought that the additional time required for this review was warranted in light of the benefits received.

Issue

Several commenters questioned how the nine potentially acceptable sites for the first repository could be identified before the final siting guidelines were issued and argued that the guidelines should have been issued before the identification of potentially acceptable sites.

Response

When the Act mandated the preparation of the guidelines, the DOE had already identified nine sites as potentially acceptable for the first repository; the screening that led to them had been based on criteria defined by the National Academy of Sciences (NAS-NRC, 1978), the International Atomic Energy Agency (IAEA, 1977) and earlier programs in the United States (Brunton and McClain, 1977; DOE, 1980). The DOE believes that Congress did not intend this screening to be repeated on the basis of the new guidelines required in the Act. Section 116(a) of the Act requires that, within 90 days of its enactment, the DOE identify the States with potentially acceptable sites and, within 90 days after such identification, notify the States and affected Indian Tribes of the potentially acceptable sites within their jurisdictions. Such a notification would be impossible if Congress had intended a repetition of the screening against the guidelines, which were to be issued within the first 180 days. The screening that led to the nine potentially acceptable

sites did not use the guidelines per se, but it was based on the same principles. The guidelines have been and will be used in the remainder of the site-selection process for the first repository and for screening potential sites for the second repository.

Issue

Several commenters contended that the guidelines should not have been developed before the promulgation of the EPA standards and the NRC criteria for geologic disposal because the guidelines are based on compliance with the EPA standards and the NRC criteria.

Response

The Act did not allow the DOE to delay the guidelines until the publication of the NRC and the EPA regulations. It required the DOE to issue guidelines within 180 days of the enactment of the Act (i.e., in August 1983), whereas the NRC and the EPA were to issue their regulations by January 1, 1984, and January 7, 1984, respectively.

However, the guidelines were based on proposed EPA and NRC regulations. Their compatibility with the NRC's 10 CFR Part 60, which was published in final form on June 21, 1983 (NRC, 1983), has been verified by the NRC, which used absence of conflict with 10 CFR Part 60 as one of the criteria for its concurrence on the guidelines. Throughout the guideline-development process, the DOE was able to review the working drafts of the EPA's 40 CFR Part 191 to ensure absence of conflict. The final EPA rule, published on September 1, 1985 (EPA, 1985a), is not in conflict with the guidelines. As explained in the "Supplementary Information" for the guidelines (DOE, 1984, p. 47721), in the event of any future conflict between the guidelines and either 10 CFR Part 60 or 40 CFR Part 191, these NRC and EPA regulations will supersede the guidelines and constitute the operative requirement in any application of the guidelines. The guidelines also contain provisions for their amendment to maintain compatibility with the NRC and the EPA regulations.

C.3.1.1.3 Adequacy of the siting guidelines

Many of the comments received on the guidelines addressed the adequacy of the guidelines. The issues raised ranged from doubts about the ability of the guidelines to protect public health and safety to suggestions for revising the guidelines.

Issue

A number of comments expressed doubt that the guidelines would protect public health and safety and the quality of the environment.

Response

The siting guidelines are based on compliance with the EPA standards for the geologic disposal of radioactive waste (40 CFR Part 191) and the NRC criteria for implementing the EPA standards (10 CFR Part 60). Protection of the health and safety of the public and the quality of the environment is the basic objective of both the EPA and the NRC regulations.

Issue

Several commenters requested that "proximity" be included as a factor in selecting and evaluating potential repository sites, and one commenter questioned why proximity to dedicated lands is not a disqualifying condition.

Response

Proximity is included as a factor in the preclosure guidelines on population density and distribution, offsite installations and operations, the environment and transportation. Proximity is also implicit in the third disqualifying condition on the environment, which is concerned with the previously designated resource-preservation use of National or State parks, forest lands, etc.

Issue

Some parties said that, because no sites have been disqualified, the validity of the guidelines is questionable.

Response

The nine potentially acceptable sites for the first repository were identified in a site-screening process that evaluated regions, areas, locations, and potential sites against various criteria that were based on the same principles as the siting guidelines. One of the objectives of this process was to eliminate sites that do not merit the investment necessary for detailed studies and site characterization. It is therefore not surprising that none of the sites identified as potentially acceptable have not been disqualified in evaluations against the guidelines.

Issue

The guidelines were criticized by some parties for failing to specify procedures for verifying findings.

Response

The guidelines are intended to provide the framework for a site-screening and site-selection process that can lead to the selection of suitable sites. They do not contain any procedures for the conduct of site screening, methods of date collection and analysis, etc. Such procedures will be included in other documents, such as the site-characterization plans. The plans for site characterization will be reviewed by the NRC and the affected State, and the information collected during site characterization will be reported to the NRC every 6 months. The final determination of the suitability of any site will be made by the NRC.

Issue

Some comments alleged that, because the guidelines may be challenged by litigation, the EA findings are tenuous.

Response

As explained in Section C.3.1.1.1, the siting guidelines were developed through a process of extensive consultation with the States and affected Indian Tribes and review by the public. As required by the Act, they received the concurrence of the NRC. The DOE is therefore confident that litigation challenges will not bring about any significant changes in the guidelines or require changes in the EA findings.

Issue

The DOE was advised that the controlled area and the accessible environment should be defined before site characterization begins.

Response

The DOE siting guidelines define the accessible environment as the atmosphere, the land surface, surface water, oceans, and the portion of the lithosphere that is outside the controlled area.

The definition of the controlled area is derived from the NRC's 10 CFR Part 60 (NRC, 1983); it establishes an area of no more than 10 kilometers (6 miles) around a repository that is to be identified by markers, records, and other possible institutional controls intended to exclude incompatible activities from the area. The EPA's final standard in 40 CFR Part 191 (EPA, 1985) establishes a more restrictive definition of controlled area: it limits the controlled area to 5 kilometers in any direction from the outer boundary of the original location of the waste in a repository. Furthermore, the controlled area is also limited to 100 square kilometers, which is approximately the area that would be extend for a distance of 3 kilometers from all sides of an undergound repository in a typical configuration. The EPA definition thus substantially reduces the area of the lithosphere that would be contained if the controlled area and thus decreases the distance to accessible environment. The 5-kilometer distance was chosen to retain reasonable compatibility with the NRC's requirement that the pre-waste-emplacement time of ground-water travel to the accessible environment be at least 1,000 years.

Issue

The adequacy of the guidelines for the ranking of sites was questioned.

Response

As explained in the multiattribute utility analysis of the nominated sites, the DOE developed a revised method for using the guidelines to rate the technical adequacy of sites. This method has been reviewed by the National Academy of Sciences and other peer reviewers.

Issue

Some parties suggested that the guidelines should establish procedures for determining the end point of site characterization.

Response

The end point of site characterization will be established by the site-characterization plans, which will describe in detail the tests to be performed, the data that are needed, and what the data will be used for. Each plan will be specific to a particular site and will be based on the data and analyses needed to resolve outstanding issues about the suitability of the site. Because the end of site characterization depends on site-specific conditions, it cannot be defined by general siting guidelines. As already mentioned, these plans will be reviewed by the NRC, the affected States and Indian Tribes, and the public through a formal hearing process. The data collected during site characterization will be reported to the NRC every 6 months in progress reports that will also discuss any needed changes in the plans for testing. After site characterization is completed, the NRC may request the DOE to collect more data for the confirmation of the results of site characterization.

Issue

One commenter suggested that the potential impact on system performance by discrete hydraulic features (joints, faults, fractures, and dissolution conduits) be incorporated into the DOE guidelines and the EAs.

Response

The impact on system performance of discrete hydraulic features is not included in the guidelines because the guidelines must be general enough to cover all types of host rock. The impacts of such features, if they are present, will be assessed during site characterization.

C.3.1.1.4 Comments on particular guidelines

Issue

The guideline concerning the 10,000-year travel time from the repository to the accessible environment is not appropriate for radioactive waste that will be subject to dispersive and diffusive mixing processes.

Response

A 10,000-year travel time to the accessible environment is a favorable condition in the postclosure guidelines on geohydrology; it was derived from the NRC's criteria in 10 CFR Part 60. The qualifying condition for geohydrology says that the present and expected setting of a site shall be compatible with waste isolation, taking into account the characteristics of, and the processes operating within, the geologic setting.

Issue

Ground-water modeling should be specified in the postclosure guideline on geohydrology (and the EAs) as a screening tool rather than as a predictive tool. Modeling results should not be substituted for "hard data" where inadequate data would make verification impossible.

Response

As already mentioned, the guidelines are not intended to specify procedures for data collection, data analysis, or performance assessment. Detailed information on the technical approach will be presented in the site-characterization plans.

Issue

Some commenters asked why the technical guideline on preclosure site ownership and control is assigned to the system guideline for preclosure radiological safety instead of ease and cost of construction, operation, and closure.

Response

The primary purpose of the preclosure guideline on site ownership and control is to ensure compliance with the NRC's requirement that the DOE obtain ownership as well as surface and subsurface rights to land and minerals within the controlled area of the repository (10 CFR 60.121). The objective of this requirement is to protect the general public from any radioactivity that might be released in the repository, and hence this guideline is concerned mainly with preclosure radiological safety. The system guideline on the ease and cost of repository siting, construction, operation, and closure, on the other hand, is concerned with the use of reasonably available technology and assurance that the cost of siting, constructing, operating, and closing a repository at a particular site is reasonable in comparison with the costs of other available and comparable siting options.

C.3.1.2 General site-screening issues

Summarized and addressed in this section are comments on several generic site-screening issues: the site-screening process, the importance of host-rock diversity, the selection of sites on the basis of land use, and the screening for sites in salt. In addition, this section includes comments on particular siting issues, such as proximity to a national park.

C.3.1.2.1 Use of ambiguous criteria and lack of uniformity

The site-screening process was criticized because it allegedly varied from site to site and because host rocks other than basalt, salt, and tuff were not considered.

Issue

One party alleged that Chapter 1 of the draft EAs reveals the site-screening process to be full of ambiguously defined criteria, arbitrary cutoffs, and site deferrals and said that the criteria used to eliminate sites were aimed at reaching an arbitrary number of sites, rather than eliminating inferior ones. Size was cited as one such arbitrary factor, particularly the 2,000-acre minimum that led to the elimination of three salt-dome sites.

Response

The criteria used in screening for potentially acceptable sites were based on waste-isolation requirements, natural processes and conditions that could affect isolation, engineering design requirements, and factors particular to the rock type under consideration (i.e., dome size is pertinent only to salt domes). The size criterion, for example, was derived from repository designs and NRC requirements. The three domes were eliminated because the 2,000-acre criterion was established during the time the salt domes were being screened.

Chapter 1 of the EAs only highlights the site-screening processes. For a complete description of the processes, the supporting references cited in Chapter 1 should be consulted.

Issue

The DOE was advised to begin the national screening process for the first repository again, implementing a uniform process for all sites.

Response

To begin another national screening process for the first repository would violate the requirements of the Act, which specifies that the potentially acceptable sites for the first repository be identified at the time the guidelines are issued--within 180 days of the enactment of the Act. The requirement for the identification of potentially acceptable sites was derived from the recognition by Congress that the DOE had been conducting screening studies for several years. As explained in the "Supplementary Information" for the guidelines (DOE, 1984), the screening processes were based on principles similar to the guidelines.

Issue

Several commenters questioned why granite, considered by countries like Sweden as the best rock for a radioactive-waste repository, or argillaceous rocks (shale) are not being considered for the first repository.

Response

Because basalt, salt, and tuff are suitable host rocks for waste isolation, screening in these rocks had identified promising sites, the cost of characterizing more than three sites for the first repository seemed unwarranted, and the Act required potentially acceptable sites to be identified within 180 days, the DOE decided to reserve granite for the second repository. Thus, studies of granite, a crystalline rock, have not progressed as far as studies of other host rocks. Several years will be required to identify potentially acceptable sites in crystalline-rock formations and to collect for such sites as much information as is available for the basalt, salt, and tuff sites in order for all sites to be considered on a comparable basis.

Argillaceous rocks at the Nevada Test Site were considered for the first repository in the late 1970s. As explained in Chapter 2 of the EA for the Yucca Mountain site, general studies were made of low-permeability shale, and

detailed studies were made of the argillite-rich Eleana Formation. However, because the argillite rock was judged to be too complex for characterization, further consideration was suspended.

C.3.1.2.2 Importance of host-rock diversity

The DOE was criticized by some commenters for using the diversity of host rocks as a requirement in the site-screening process. Conversely, other commenters wanted to know why screening for the first repository was limited to basalt, salt, and tuff.

Issue

There were objections to the importance assigned to host-rock diversity. The requirement for diversity automatically places the Hanford and the Nevada sites in the top five and makes it possible for technically superior sites to be overlooked in favor of sites in different settings. (See also Section C.3.3 for comments and responses on geohydrologic settings.)

Response

The need to recommend and characterize sites in different host rocks is well established in the NRC requirements (10 CFR Part 60) to characterize three sites in two host rocks, at least one of which is not salt; in the requirement of the Act that, to the extent practicable, the DOE recommend sites in different host rocks; and in Section 960.3-1-1 of the siting guidelines. The consideration of alternative host rocks is also implicit in the requirements of the National Environmental Policy Act (NEPA). The DOE is nominating a set of sites that meet both the NRC's technical criteria in 10 CFR Part 60 and requirements for a diversity of host rocks. Without diversity, the discovery of a generic flaw in some particular host rock during site characterization would lead to unacceptable delays in the siting process.

C.3.1.2.3 Selection of sites on the basis of land use

Many comments addressed the screening of sites on Federal lands and the identification of the Hanford site in Washington and the Yucca Mountain site in Nevada as potentially acceptable on this basis.

Issue

Commenters said that the Hanford and the Nevada sites were selected on the basis of Federal ownership rather than geologic superiority, whereas the Act requires that geologic conditions be the primary criteria.

Response

Geologic conditions are the primary criteria. However, the DOE used two approaches to screening for geologically suitable sites for the first repository. One approach began with the identification of salt as a

potentially suitable host rock and proceeded with a screening process that narrowed the size of the land unit under consideration from regions to sites.

The other approach began with the evaluation of certain Federal lands that are dedicated to nuclear-energy operations to see which contain potentially suitable host rocks; it led to screening at Hanford and at the Nevada Test Site. This approach was endorsed by the Comptroller General of the United States (General Accounting Office, 1979) and by a resolution by the House of Representatives (1979). Although land use formed the initial basis for the screening of Federal lands, the subsequent progression to smaller land units was based on evaluations of geologic and hydrologic suitability, using criteria that are similar to the siting guidelines. Since the publication of the guidelines, the evaluations of these sites have been based on the guidelines. If the results of site characterization cause a site on Federal land to be disqualified because of geologic conditions, the site would be dropped from consideration regardless of land ownership.

Issue

Some commenters asked why the DOE did not investigate government-owned sites other than Nevada and Hanford and other sites already set aside for nuclear-energy activities.

Response

Other DOE-owned sites dedicated to nuclear-energy activities were considered. However, the geologic and hydrologic conditions at the other sites did not seem as favorable as those of the Hanford Site and the Nevada Test Site. In addition, preliminary investigations of the Hanford Site and the Nevada Test Site had been conducted for defense programs, and experienced staff were available to assist in repository-site investigations. Another reason for choosing the Hanford and the Nevada sites for site screening is their large geographic area, which increases opportunities for finding sites with favorable combinations of geologic and hydrologic characteristics. For example, the large size of the Nevada Test Site allowed preliminary investigations in nine different host rocks in saturated and unsaturated environments before it was shown that the unsaturated environment in tuff was preferred to other geologic environments at Nevada.

C.3.1.2.4 Screening for sites in salt

There were a number of comments on the screening of sites in salt. Some of them questioned the suitability of salt, in general, whereas others asked about particular regions or sites.

Issue

Some commenters said that the EAs should explain why salt is the best host rock or the relative advantage of salt domes and bedded salt. They said that salt seems to be a candidate because it is the most-studied host rock rather than the best host rock, and its suitability has been questioned.

Response

Salt was recommended as a potentially suitable host rock for waste disposal in 1955 by the National Academy of Sciences-National Research Council (NAS-NRC 1957), which made this recommendation after evaluating many options. This recommendation was reaffirmed in a subsequent report (NAS-NRC, 1970) and endorsed by the American Physical Society (1978).

The characteristics of salt that are favorable for waste isolation are discussed in Section 1.2.2 of the EAs. The features of salt beds and salt domes were described in Section 1.3.2.2 of the EAs and in the DOE's Mission Plan (DOE, 1985, Vol. I, Part I, Chapter 5). The DOE has never claimed that salt is the "best" host rock for waste isolation. All of the host rocks considered for repositories have both advantages and questions to be resolved.

Issue

One commenter wanted to know why the Salina Basin was deferred for further study even though it is closer to a larger number of reactors than other salt sites and its selection would alleviate the problem of transporting waste over long distances.

Response

The Salina region includes portions of Michigan, New York, Ohio, Pennsylvania, West Virginia, and Canada. Regional analyses had indicated that bedded salt potentially suitable for a geologic repository occurs in Michigan, northeastern Ohio, and a portion of northwestern New York. Plans for field investigations in Michigan were halted in 1977 because of the enactment of a State law (Public Act 113) barring the disposal of high-level radioactive wastes in the State. Regional studies of the Salina Basin based on the geologic literature and geologic data from public and private sources were completed in 1978. These studies identified study areas for field investigations in New York and Ohio, but no field work was carried out for the reasons explained below.

The studies of the Salina region were not specific or detailed enough to judge that any part of the region was suitable or unsuitable for a repository. They did reveal, however, unfavorable characteristics in several parts of the basin. Among the most important was the high population density and the concentration of urban areas (more than 50,000 inhabitants) in Ohio and southern Michigan. Another was the abundance of natural resources, especially the oil and gas deposits in Ohio and throughout the Michigan Basin. When the State of Ohio objected to further studies, the DOE was in the process of examining its goals and objectives in the management of radioactive waste and had begun investigations of alternative host rocks (basalt and tuff). Evaluations of salt were restricted to the Permian Basin of Texas, the Paradox Basin in Utah, and the salt domes in the Gulf interior region of Louisiana and Mississippi.

Issue

The DOE needs to discuss why the first two sites selected in the salt-screening process--Lyons, Kansas, and the WIPP site--were rejected and are not even mentioned in the description of the siting process.

Response

The site at Lyons, Kansas (an already existing salt mine), was used by the Atomic Energy Commission (AEC) from 1965 to 1967 for a large-scale experiment with simulated waste and electrical heaters. The purpose of this experiment, called Project Salt Vault, was to observe the response of salt beds to heat. In June 1970, the Lyons site was selected as a potential location for a geologic repository; the selection, however, was conditional on the satisfactory resolution of site-specific issues under study. The concept and the location were conditionally endorsed in November 1970 by the waste committee of the National Academy of Sciences. A conceptual design for a repository was completed in 1971. In 1972, however, the Lyons site was judged to be unacceptable for technical reasons: there were previously undiscovered drill holes nearby, and some water used in nearby solution mines could not be accounted for. Accordingly, the AEC decided to abandon Lyons as a demonstration site and to search for sites elsewhere.

In 1974, field investigations for a site for the Waste Isolation Pilot Plant (WIPP) were begun in the northern part of the Delaware basin in New Mexico. Selected by the Oak Ridge National Laboratory, the site was on the Eddy-Lea County line, about 30 miles east of Carlsbad. However, drilling and geophysical investigations produced unexpected results showing that the geologic structure appeared to be unpredictable because of proximity to a major aquifer. The structure could have been delineated by more drilling, but extensive drilling would have been contrary to the principle of minimizing the number of holes drilled into the repository. That site was therefore given up, and a new survey for sites in the New Mexico portion of the Delaware basin was begun by the U.S. Geological Survey and the DOE's predecessor, the Energy Research and Development Administration. In 1975, these efforts led to the identification of a site in the Los Medanos area, about 25 miles east of Carlsbad. The Waste Isolation Pilot Plant now being constructed there has been designated (by Public Law 96-164) a research-and-development facility for the national defense effort (to demonstrate the disposal of high-level waste) and for the disposal of defense transuranic waste. This plant is not part of the DOE's program for the management of commercial radioactive waste.

C.3.1.2.5 Particular siting issues

A number of comments addressed particular siting issues, such as proximity to a national park or the potential for contaminating water supplies.

Issue

The DOE was urged not to consider a repository site near a national park.

Response

The DOE recognizes its responsibility to protect the national parks from irreconcilable conflicts. According to the siting guideline on environmental quality, if the "presence of the restricted area or the repository support facilities would conflict irreconcilably with the previously designated resource-preservation use of a component of the National Park System," the site would be disqualified.

Issue

Some persons were concerned that a repository would contaminate water supplies and nearby rivers, thus adversely affecting the water supply of downriver populations.

Response

Water supplies and nearby rivers are protected by EPA and NRC regulations, which require complete containment of all radioactive material for 1,000 years and limit any releases thereafter to extremely low rates that would pose no hazard to public health or safety. Requirements for ground-water protection are explicitly included in the EPA's final standards (EPA, 1985).

Issue

Several comments said that a repository should not be located near prime farmland.

Response

The siting guidelines provide a number of opportunities to evaluate the potential impacts of a repository site on prime agricultural lands. For example, the preclosure guideline on socioeconomics says that the "potential for major disruptions of primary sectors of the economy of the affected area" is a potentially adverse condition. The DOE is concerned about impacts on prime agricultural lands and will not select any site that would irreconcilably damage farm capability.

Issue

Many commenters wanted to know why the DOE is continuing to consider the Hanford site. They claim that the highly fractured basalt rock has been shown to be a poor host rock for a repository.

Response

The Hanford site and the basalt host rock have many favorable characteristics for waste isolation and some questionable characteristics, just as the other rock types have. The DOE recognizes that the hydrologic conditions of the Hanford site are an important issue, but the results of studies conducted since 1976 have not revealed any technical reasons for finding the site unacceptable. If Hanford is selected for site

characterization, the studies performed will provide the information needed for determining compliance with the siting guidelines and hence NRC criteria and EPA standards.

C.3.1.2.6 Alternative repository locations

Issue

Many commenters suggested alternative repository locations with particular characteristics (e.g., location away from populated areas, in an arid desert, or on barren government-owned land) or recommended specific sites.

Response

The characteristics suggested by the commenters are considered favorable conditions in the siting guidelines. However, the geologic conditions that are important to waste containment and isolation after repository closure are the primary considerations. No single site characteristic is sufficient because each site must meet the qualifying conditions of every guideline. While other possible repository locations may possess particular characteristics that are favorable, the DOE is confident that the sites being considered for the first and the second repository possess the combination of characteristics needed for compliance with the DOE siting guidelines and with the regulations promulgated by the EPA and the NRC for the protection of public health and safety.

C.3.1.3 Site-specific screening issues

A number of commenters said that the data base for the site-screening criteria was inaccurate, inadequate, or improperly applied in the selection of the Davis Canyon site. Specific issues were proximity to the Canyonlands National Park; the presence of breccia pipes, active faults, and other potentially unstable conditions; the cost of transporting the excavated salt away from the site; and the overall approach to site screening. The DOE has reviewed the accuracy of the data used in identifying and comparing the seven salt sites. Many EA sections have been clarified and, in many cases, updated with more information. The current data base and analyses have been reevaluated to ensure that they fit within the requirements of the screening process and to ascertain their effect on the screening results contained in Chapter 6 of the final EA.

Issue

Objecting to the proximity of the site to Canyonlands National Park, the commenters said that being 4,000 feet from the park was the same as being within the park for all practical purposes. There is also the possibility that, if the size of the controlled area is expanded, the impacts on the park

will be significant, possibly to the point of disqualifying the site. Some commenters felt that impacts on the park were already unacceptable under the auspices of the Organic Act of the National Park Service (36 CFR Part 9) and the enabling legislation establishing the Canyonlands National Park.

Response

The controlled area for the repository would not be expanded to any extent beyond the boundaries presented in Section 5.1. The criteria are based on a maximum travel distance of approximately 230 feet in 10,000 years. This distance will not affect the Canyonlands National Park boundary.

Impacts on the Canyonlands National Park are discussed in detail in Sections 4.2.1.12 and 5.2.11. The ability to comply with the legislation mentioned by the commenters is discussed in Section 6.2.1.6.2. The DOE will ensure that all potential impacts on the park will be prevented or minimized through appropriate mitigative measures and will comply with applicable environmental statutes and regulations.

Issue

The commenters cited breccia-pipe collapse structures, geopressurized zones in the salt interbeds, active faults, and active salt slips as examples of potentially unstable repository conditions. Impurities in the Paradox salt sequences were also cited as needing more study. These materials are very different from salt in their mechanical and chemical properties and severely complicate performance assessment and screening.

Response

The regional geohydrologic studies described in Section 3.2 of the EA have found no evidence that the Davis Canyon site has a greater proportion of geologically unstable conditions than the rest of the region.

Issue

Some commenters said that the cost of transporting 9.1 million metric tons (10 million tons) of salt several hundred miles would be a major expenditure. They felt that this cost should have been included in the estimates of repository costs and used in comparisons between the sites.

Response

The salt excavated for an underground repository would require offsite disposal and would therefore have to be transported away from either the Davis Canyon or the Lavender Canyon site. The two sites are so close together that the costs of transporting the salt would be the same.

Issue

Several parties questioned the overall approach used to ensure that the site-screening data and associated analyses are adequate.

Response

The screening process for the Paradox Basin sites (described in Section 1.2 of the EA) proceeded in several steps that progressively narrowed the land units under consideration and used progressively more detailed and more specific data. The plans for collecting information at each step had been reviewed by the State; the screening process was based on criteria (DOE, 1981) derived from criteria defined for geologic repositories by the National Academy of Sciences (NRC-NAS, 1978) and the International Atomic Energy Agency (IAEA, 1977). These criteria were similar to the siting guidelines (DOE, 1984) that were developed after the passage of the Act.

Analysis and data collection for site screening are subject to the quality-assurance (QA) requirements developed for the Office of Civilian Radioactive Waste Management and the QA requirements of the DOE Project Office. They are also subjected to peer review as well as reviews by the NRC, other Federal agencies, and State agencies.

C.3.2 EVALUATION AGAINST DISQUALIFYING CONDITIONS

Many commenters disagreed with the evaluations of the Davis Canyon site against the various disqualifying conditions and questioned the lack of data, the adequacy of data, or the analyses from which conclusions were drawn. The DOE believes that the evidence is sufficient for the evaluations and findings required at this stage of the site-selection process. The evaluations were reviewed in light of the comments received on the draft EA, and no reason was found to disqualify the Davis Canyon site at present.

Specific comments suggested that the Davis Canyon site be disqualified for the reasons stated in the issues presented below.

Issue

Some commenters were concerned that field investigations might be expanded into the Canyonlands National Park. The EA states that "further testing may show a need to conduct drilling activities in the park." The drilling and possible ground-water-monitoring wells were cited as being incompatible with the reasons for which the park was established.

Response

As described in Section 4.1.1 of the final EA, the DOE does not plan to conduct any earth-disturbing field activities in the Canyonlands National Park.

Issue

Many persons felt that, even if the site is not expanded, a repository would conflict irreconcilably with the designated use of the Canyonlands National Park, citing a survey indicating that up to 80 percent of visitors would be less likely to visit the park if a repository were built nearby. They said that the repository would conflict with the uses of the Park by --

- Compromising its character.
- Destroying the beauty of the area.
- Ruining the wilderness experience.
- Developing an area that is likely to be protected in the future because of increased demand for unspoiled areas.
- Violating the sanctity and destroying the naturalness of the park.
- Adversely affecting the unquestionably significant archaeological resources located there.

Response

In response to comments, the DOE repeated the evaluation of the Davis Canyon site against disqualifying condition concerning conflict with the Canyonlands National Park, using criteria provided by the National Park Service. These criteria have been used to evaluate potential conflicts with other national parks. The criteria and evaluation are presented in Section 6.2.1.6. The results of the evaluation show that the Davis Canyon site is not disqualified.

Issue

Scientific studies indicate that the dissolution of salt in the Canyonlands area could lead to instability and, presumably, loss of waste isolation.

Response

Studies on the dissolution of salt and the potential effects on waste isolation have been reviewed by the DOE. This information has been considered in the conditions in EA Section 6.3.1.6. Dissolution fronts are not considered a threat to the repository.

Issue

There was concern that the water supply of the Colorado River could become contaminated from the repository, either with radioactive contaminants or with salt.

Response

The potential for contaminating the Colorado River with radioactivity is considered to be extremely remote. The preliminary performance assessments presented in Section 6.4 of the EA indicate that a repository at Davis Canyon would meet the EPA standards. Salt emissions from the facility would be controlled, as described in Sections 4.1, 4.4, 5.1, and 5.3.5. The resultant emissions would be far below natural salt loadings to the Colorado River and would meet environmental standards designed to protect water supplies and the environment.

Issue

Some persons felt that in evaluating the Davis Canyon site against the disqualifying conditions the guidelines had been misapplied or data were misused or ignored, specifically in the treatment of noise and night lighting.

Response

The analyses of noise and night lighting have been revised and incorporate new data obtained since the publication of the draft EAs. These data are used in Sections 4.2.1.6 and 5.2.7 to assess potential noise effects and in Sections 4.2.1.3 and 5.2.5 to assess the effects of night lighting. The revised evaluation of the site against the environmental quality guideline is in Section 6.2.1.6.

Issue

Several commenters said that the DOE cannot categorically state that the site is not located within specified disqualifying areas, because the EPA standards have not been issued in final form. The final standards may require the sites to extend closer to or into the Canyonlands National Park.

Response

The evaluations in the final EA were revised to take account of the final EPA standards (EPA, 1985), which were published in September 1985. These standards do not affect the size of the repository site, even though the definition of the accessible environment was revised (see comments and responses in Section 3.1.1). Conservative estimates of the size of the controlled zone show that it would not extend into the park.

Issue

One commenter recommended that the EA statement that no evidence was found to disqualify either of the Paradox Basin sites be expanded to indicate that this decision was based on a lack of data and analysis, not on a full and complete assessment.

Response

The DOE believes that the evidence presented or cited in the EAs is sufficient for the evaluations that must be performed for site nomination and the levels of findings specified for nomination in the siting guidelines (DOE, 1984, Appendix III).

C.3.3 DIVERSITY OF GEOHYDROLOGIC SETTINGS AND THE SELECTION OF PREFERRED SITES

The DOE's emphasis on a diversity of geohydrologic settings and the selection of the preferred site in each setting were the topics of many comments. The issues raised included objections to the grouping of sites into

geohydrologic settings, requests for detailed explanations of the selection of preferred sites, and doubts about the availability of sufficient information to discriminate between sites in a geohydrologic setting.

Issue

There were objections that the requirement for grouping sites into geohydrologic settings and selecting one preferred site from each setting artificially elevates the importance of host-rock diversity over geologic conditions. It automatically places the Hanford and the Nevada sites in the top five and makes it possible for technically superior sites to be overlooked in favor of sites in different settings.

Response

It is indeed true that the second-best site in one geohydrologic setting may be in some respects superior to the best site in another geohydrologic setting. However, it is not necessary to find the absolutely best site for the repository; a research for the absolutely best site could be almost endless. It is necessary to find and qualify good sites--ones that meet or exceed all of the technical requirements that bear on protecting public health and safety during repository operations and over the long term. In order to find satisfactory sites in a reasonably expeditious manner, and to satisfy the requirement of the Act that sites from different host rocks be recommended, the DOE has chosen to emphasize diversity of geohydrologic settings in the process of selecting sites for nomination and recommendation. Maintaining a diversity of rock types has the added advantage of minimizing the possibility of a program delay that could be caused by an as-yet-unrecognized basic flaw in a particular host rock.

The fact that the emphasis on geohydrologic diversity automatically places the Hanford and the Nevada (Yucca Mountain) sites in the top five is an artifact of the processes that led to the nine potentially acceptable sites. The searches that yielded the nine potentially acceptable sites were not necessarily identical. Those that took place on DOE-controlled land, ending with the selection of the Hanford and the Yucca Mountain sites, were directed at choosing a single site on Federal land dedicated to nuclear activities. For example, 9 rock types in 15 alternative locations were considered in the site-screening process for the Yucca Mountain site. The site-screening process for the salt sites had not yet narrowed the candidates down to a single site per geohydrologic setting at the time the nine potentially acceptable sites were identified.

Issue

Several commenters recommended that the final EA should state more clearly the importance to site selection of establishing candidates in a variety of geohydrologic settings and that the selection of the preferred site in each geohydrologic setting should be explained in detail, with reference to the siting guidelines.

Response

The importance of maintaining diversity in geohydrologic settings in the siting process is explained in the preceding response.

Section 2.4 of the EAs for the salt sites describes how the preferred site in each geohydrologic setting was chosen, with reference to the siting guidelines.

Issue

Some parties wanted to know why only one tuff and one basalt site were considered as compared to seven salt sites. The Nevada and the Hanford sites were compared with no others in the same geohydrologic setting or in the same host rock.

Response

Because the studies of the Nevada (tuff) and the Hanford (basalt) sites were started on the basis of favorable land use (Federal ownership and dedication to nuclear activities), they were focused on locating a geologically suitable site on a particular Federal reservation. The DOE did not need to progress through regional, area, and location studies--the process that identifies alternative sites at each major screening step.

Issue

Some commenters did not believe that the DOE had sufficient information to discriminate between sites in a geohydrologic setting, including the Richton, Cypress Creek, and Vacherie Domes.

Response

The basis for selecting the preferred site in a geohydrologic setting is discussed in Section 2.4 of each EA. It is the DOE's position that the information currently available on the different sites is adequate for choosing a preferred site in each setting.

C.3.4 NOMINATION AND RECOMMENDATION OF SITES FOR CHARACTERIZATION

In Chapter 7 of the draft EAs, each of the five sites proposed for nomination (Davis Canyon, Deaf Smith, Hanford, Richton Dome, and Yucca Mountain) was assigned a ranking for each technical guideline. Three quantitative methods were then used to aggregate these rankings. Two of the methods were criticized by the commenters for lacking firm theoretical foundations. The third method--described variously as the utility-estimation, rating, or weighting-summation method--was criticized because its application did not follow the procedures suggested by the professional literature. The methods were briefly described in Section 7.4 of the draft EAs, which also presented the results of their application--the identification of three sites as preferred for nomination. A more detailed discussion of the three methods was given in Appendix B.

In response to these comments, the DOE undertook a more formal application of the utility-estimation method (referred to as the decision-aiding methodology) to provide a more defensible overall comparative evaluation as a basis for determining which three sites appear most favorable for recommendation for characterization. The decision-aiding methodology is intended to provide a framework for systematically accounting for the technical and value judgments required in selecting sites for recommendation. It has been reviewed by the Committee on Waste Management of the National Academy of Sciences.

The various steps of the analysis were conducted by a DOE team consisting of experts in decision analysis, the technical disciplines corresponding to the technical siting guidelines, and repository performance. The technical information for the analysis was obtained from the final EAs. The value judgments were provided by DOE management and staff. A detailed explanation of the decision-aiding methodology, the analyses that were performed, and the results are presented in multiattribute utility analysis of the nominated sites and the recommendation of candidate sites, which are being issued separately.

The rankings reported in Chapter 7 of the draft EAs elicited numerous comments, some of which objected to the rankings assigned for a particular guideline and some of which suggested different rankings. A number of comments were also directed at the methodology used in aggregating the rankings, at the weighting used for the postclosure and the preclosure guidelines, and at the choice of preferred sites.

In the final EAs, Chapter 7 presents only a comparative evaluation of the nominated sites that does not rank the sites on individual guidelines and does not aggregate rankings to identify preferred sites for recommendation. The ranking is performed in the multiattribute utility analysis of the nominated sites. For this reason and because the process of identifying the most favorable sites for recommendation is significantly different from that described in the draft EAs, comments on Chapter 7 and Appendix B of the draft EAs that were specifically concerned with the ranking of sites or the methodology are not addressed here. These include comments on the specific ranking (i.e., criticisms or endorsements) of sites on particular guidelines, aggregate rankings, and the methodology itself. For such comments the issues are summarized, however, to show the concerns of the commenters. The reader interested in the ratings assigned to the sites is referred to the multiattribute utility analysis of the nominated sites and the recommendation of candidate sites. The comments that are addressed here are those that sought clarification about, or commented on, the comparative evaluation of the sites in the draft EAs rather than simply disagreeing or agreeing with a ranking; they include, for example, comments suggesting factors that should have been considered in the evaluation or questioning the use of a particular assumption. These comments were divided into two categories: (1) comparative evaluations against postclosure guidelines and (2) comparative evaluations against preclosure guidelines.

C.3.4.1 Comparison of sites on the basis of postclosure guidelines

Comments on the comparative evaluation of sites against the postclosure

guidelines covered each guideline. They included questions about the findings made for particular conditions of the guidelines, comments about the data base, and recommendations for expanding or improving the analysis. As already explained, comments that were specifically concerned with ranking or methodology are not addressed here. Comments about the evaluations of individual sites against the postclosure guidelines are addressed in Section C.5 of the final EA for the particular site.

C.3.4.1.1 System guideline

Issue

A commenter stated that the DOE's failure to compare the sites on the basis of the postclosure system guideline masks the Hanford site's alleged inferior performance in comparison with the other sites.

Response

A comparison of sites against the system guidelines was not performed for the draft EA, because the available data were deemed insufficient for assessing the performance of the total repository.

Both the draft and the final EAs report the results of preliminary performance assessments, but these results were not appropriate for use as
the basis for selecting sites for recommendation.

C.3.4.1.2 Geohydrology

The comparative evaluation of the sites against the postclosure guideline on geohydrology elicited many comments. The issues raised included the definition of the accessible environment, the estimates of ground-water travel times and the analyses on which they were based, risk to regional water sources, the comparison of sites in saturated and unsaturated zones, the adequacy of the data base, and criticisms of the findings for specific sites.

Issue

One commenter noted that Chapter 7 of the EAs should be revised to take into account the 2-kilometer distance to the accessible environment rather than 10 kilometers. This would be consistent with draft 5 of the EPA standard.

Response

Analyses in Chapters 6 and 7 have been revised to use a distance of 5 kilometers to the accessible environment. The 5-kilometer distance is consistent with the final EPA standards, which were published in September 1985 (EPA, 1985). (See also Section C.3.1.1 for comments on the definition of the accessible environment in the guidelines.)

Issue

Two commenters felt that the discussion of favorable condition 3, ease of characterizing and modeling, was much too brief. This condition is considered to be not present at all five sites.

Response

The DOE agrees with the comment; the text has been revised to indicate that favorable condition 3 is a major consideration. The discussion has been expanded to more completely discuss uncertainty in characterizing and modeling each of the sites.

Issue

Two commenters asked whether the four subconditions under favorable condition 4 are of equal weight and recommended that ground-water flux be a factor in assessing the sites.

Response

In terms of making a finding on this favorable condition, the four subconditions are of equal weight in that the presence of any one subcondition results in a finding of present. The DOE agrees that ground-water flux should be a factor in assessing the sites and has revised the evaluation of the sites against the geohydrology guideline to explicitly consider it.

Issue

Several commenters were concerned with the uncertainty in ground-water travel times in the comparative evaluations of sites against the geohydrology guideline. One commenter said that the lack of data on the complexity of ground-water flow paths was not adequately assessed. Another party provided alternative travel-time calculations, including faster travel times than those presented in Chapter 7. A third commenter contended that the approach to ground-water modeling in the draft EA is not conservative and therefore does not compensate for uncertainty in data. One commenter felt that the range of travel times, such as 87,000 to 361,000 years, is large enough to indicate that not enough data are available for an accurate prediction. Another commenter challenged the statement that the dry conditions at Yucca Mountain almost compensate for the shorter travel times in comparison with salt, saying that this conclusion is unsupported, and questioned DOE's ability to ultimately characterize and model this site.

Response

The travel-time analysis has been reviewed and extensively revised in response to various comments. A stochastic analysis has been completed for all five sites, using ranges of key hydrologic parameters to better represent the varying uncertainties in the data base. The DOE agrees that there are not enough data to make accurate predictions of ground-water travel times. However, the DOE considers that the preliminary modeling is sufficient for comparative evaluations of the five sites for the purposes of the EAs. With respect to Yucca Mountain, the DOE has reconsidered the relative ranking of

the site to reflect the uncertainties in characterizing and modeling and in the range of travel times when compared with the salt sites. However, the DOE considers that all five sites can ultimately be characterized and modeled with reasonable certainty.

Issue

One commenter questioned whether the four subconditions under favorable condition 4 of the geohydrology guideline are of equal weight. If they are not, then the sites are not being evaluated against this guideline in an equitable manner.

Response

The four subconditions of favorable condition 4 address the components of ground-water travel time and therefore bear on a single parameter. In that respect, the guideline can be viewed as treating each site equitably.

Issue

One comment said that neither Chapter 7 nor Appendix A of the draft EAs discusses the relative risk posed by a repository to various regional water resources, such as the Ogallala aquifer and the Colorado River.

Response

Risk to various regional water resources is considered under the qualifying condition for each postclosure technical guideline: a site will be qualified under each of the postclosure technical guidelines only if the repository will not be likely to lead to radionuclide releases greater than those referenced in the postclosure system guideline. The postclosure system guideline requires compliance with the EPA and NRC regulations for waste disposal and requires that the geologic setting of a site allow for the physical separation of radioactive waste from the accessible environment in accordance with the specified regulations. The accessible environment by definition includes regional water resources outside the controlled area of the repository. In addition, the guideline on geohydrology includes a potentially adverse condition of the presence of ground-water sources, suitable for crop irrigation or human consumption without treatment, along ground-water flow paths from the host rock to the accessible environment. If this potentially adverse condition is present at a site and is judged to be sufficiently adverse to preclude meeting the qualifying condition, then a site will be disqualified.

Issue

Some parties said that the flow of ground water through salt may not be in accordance with Darcy's law. The process of diffusion and the flow of ground water through fractures in salt may predominate and should be considered.

Response

The question of Darcian flow in salt and the potential for diffusion and flow through fractures are evaluated in the final EAs. The question of ground-water flow through a body of salt has not been resolved at this time and will be addressed during site characterization.

Issue

Many comments said that the calculations of ground-water travel time for the Hanford site are inappropriate. In addition, one party noted that the Basalt Waste Isolation Project had failed to comply with NRC's request in the "Draft Issue-Oriented Site Technical Position (ISTP) for BWIP," Section 1.0, page 6.

Response

Concerns about the analysis of ground-water-travel time for the Hanford site have been reviewed and are addressed in Section C.5.11 of the final EA for the Hanford site. Modifications to the conceptual model, the data base, and the revised calculation of the ground-water-travel time from the repository to the accessible environment 5 miles away have been made in Section 6.4.2.6.1 of the final EA for Hanford. Such an analysis is required to determine whether the first favorable condition and the disqualifying condition for the geohydrology guideline are present.

Compliance with the "Draft Issue-Oriented Site Technical Position for the Basalt Waste Isolation Project" is not in question. The purpose of the document was to identify technical issues that would have to be resolved during site characterization. The Nuclear Regulatory Commission did not request that the issues be resolved before the publication of the final EA.

Issue

One commenter noted that the travel-time discussion for the Hanford site gives the misleading impression that the travel times are based on 50 transmissivity values.

Response

The discussion of travel time has been extensively revised to be consistent with additional analyses completed for the final EA. The point raised by the commenter has been clarified.

Issue

One commenter stated that favorable condition 1 of the geohydrology guideline should not be considered present at the Hanford site. Hanford may be the only site where this condition is not met.

Response

Ground-water-travel times have been extensively reanalyzed for all five sites in response to comments on the draft EAs. For the Hanford site, key

hydraulic parameters were conservatively evaluated over appreciable ranges in the stochastic model to account for uncertainty. The results indicate a probability of 0.22 for a travel time of less than 10,000 years. However, the median travel time is less than 34,000 years. Because the median travel time best represents the expected value, it appears that, on the basis of currently available data, this favorable condition can be met. The commenter is referred to Sections C.5.8 and C.5.11 of the final EA for the Hanford site for detailed responses to comments on the analysis of ground-water-travel time and uncertainties in the key hydraulic parameters used in this analysis.

Issue

One commenter argued that, since the ground-water-travel times for the bedded-salt sites in Utah and Texas were attributed to secondary permeability features and this was untrue, favorable condition 1 of the geohydrology guideline is not present at the Utah and the Texas sites.

Response

The appropriateness of including secondary permeability features is evaluated in the final EAs.

Issue

One commenter suggested that the DOE reconsider the rating of the Davis Canyon site under the geohydrology guideline in Chapter 7. Specific findings for Davis Canyon were questioned, with comments including the following:

- Favorable condition 1 should be considered to be not present, because a conservative analysis should include a catastrophic early release to the upper and the lower hydrostratigraphic units. If fracture flow is assumed, the ground-water-travel times within these units could be less than 10,000 years.

- Favorable condition 2 should be considered not present, because the effects of potential dissolution features, such as fault R, were not considered.

- Favorable condition 4 should be considered not present. Credit should not be taken for conditions 4(i) and 4(ii) if the effect of secondary permeability is considered.

- Potentially adverse condition 1 should be reevaluated to take into account the effects of thermal buoyancy or the hydraulic gradient.

- Potentially adverse condition 2 should be reevaluated to consider flow paths upward to overlying units with a total-dissolved-solids content of less than 10,000 ppm.

Response

The DOE has reconsidered the rating of the Davis Canyon site with respect to the geohydrology guideline. The relative ranking of this site with respect to the Richton Dome has been lowered. The specific comments on guideline conditions can be answered as follows:

- Favorable condition 1 is still considered to be present. No mechanism has been identified for a catastrophic early release to the upper and the lower hydrostratigraphic units. Revised travel-time calculations consider unlikely flow paths that might result from fracture zones, although there is no evidence that such zones exist. The revised travel times exceed 10,000 years.

- Favorable condition 2 is also still considered to be present. The revised discussion takes into account the potential for dissolution, including fault R. The stratigraphic offset along fault R is interpreted to be insufficient to be conducive to dissolution. Breccia pipes and other dissolution features are discussed in Chapter 6 of the Davis Canyon EA under the postclosure guideline on dissolution.

- The DOE has reevaluated favorable condition 4 and agrees that condition 4(ii) is not present. However, condition 4(i) is considered present because available data indicate that the host rock and the immediately surrounding units have low hydraulic conductivities. To claim that favorable condition 4 is present, only one of the subconditions needs to be present.

- Potentially adverse condition 1 covers only natural changes in geohydrologic conditions; changes related to repository construction and waste emplacement, such as thermal buoyancy, are evaluated under the postclosure guideline on rock characteristics.

- The revised travel-time analysis does evaluate flow paths upward from the proposed repository host rock because of the potential for localized upward gradients at the Davis Canyon site. The results of this analysis suggest that upward flow paths would reach the accessible environment laterally rather than through overlying units containing ground-water sources with a low total-dissolved-solids content.

Issue

One commenter noted that Davis Canyon has superior geohydrologic conditions when compared with Deaf Smith in terms of the ground-water-travel time and should rank high.

Response

The DOE agrees; the relative ranking on the geohydrology guideline has been revised to show that, with respect to the geohydrology quideline, the Davis Canyon site is preferable to the Deaf Smith site.

Issue

Two commenters suggested that the hydraulic conductivities in the host rock and the surrounding units are low at the Richton Dome; therefore favorable condition 4(i) and hence favorable condition 4 should be considered present at this site.

Response

The DOE agrees that the hydraulic conductivity within the host rock is very low at the Richton Dome. However, the horizontal hydraulic conductivity in the surrounding units ranges from 2.2 to 4.6 x 10^{-6} meter per day (7.2 to 1.5 x 10^{-5} foot per day). This range of horizontal hydraulic conductivities for the surrounding units does not support a finding that condition 4(i) is present.

Issue

One commenter suggested that the ranking of the Richton Dome should be lowered because of the likelihood of radionuclide transport in water and pointed out that, according to Chapter 3 of the draft EA, ground water moves up from the lower to the upper aquifer, providing a mechanism for radionuclide contamination of usable aquifers. Water in the upper aquifer flows toward Richton. There are no data on fluid movement in anomalous zones or within the salt. In addition, consideration should be given to the possible contamination of drinking water during site characterization.

Response

In the final EA for the Richton Dome, the boundary of the accessible environment is considered the edge of the salt dome. Therefore, if the Richton Dome is selected for site characterization, any radionuclide releases to the lower aquifer will have to be demonstrated to be within the limits specified by the EPA standards. In addition, the presence or the absence of anomalous zones and the mechanism of fluid movement within the dome will have to be resolved. Preliminary estimates of fluid movement within the Richton Dome suggest that ground-water travel within the Dome is very slow if it happens at all. Therefore, the DOE considers the Richton Dome to be more favorable than the other four sites with respect to the geohydrology guideline. No contamination of ground water is expected from site characterization; the commenter is referred to Chapter 4 of the final EA for the Richton Dome for a discussion of the possible effects of site characterization.

Issue

One commenter noted that the ground-water-travel times for the Yucca Mountain site in Chapter 7 are inconsistent with the travel time in Chapter 6 of the draft EA for Yucca Mountain. The final EA should contain a consistent value or range of values for travel times.

Response

For the Yucca Mountain site, Chapter 7 of the draft EA cites a minimum ground-water-travel time from the edge of the engineered-barrier system to the accessible environment of 23,000 years, and not 47,000 years as noted in the comment. Estimates of ground-water-travel time for the Yucca Mountain site have, however, been extensively revised for the final EA, and a consistent range of travel times is contained in the final document.

Issue

For Yucca Mountain, one commenter questioned the finding of "present" for favorable condition 2 of the geohydrology guideline, saying that the data on cyclic fluctuations in precipitation and changes in water-table elevation are insufficient to make a positive finding for this condition.

Response

The effects of Quaternary hydrologic processes on the ability of the Yucca Mountain site to isolate waste have been evaluated. These evaluations were based on geologic data, preliminary modeling of a rise in the water table under pluvial conditions, and a preliminary performance assessment. Preliminary modeling of increases in the water table during a full pluvial cycle with a 100-percent increase in precipitation suggests that the water table would experience a 130-meter rise. If pluvial conditions were to recur, significant increases in ground-water flux and decreases in ground-water-travel time could occur. However, a preliminary performance assessment for a repository at Yucca Mountain does not suggest a significant effect on waste isolation.

Issue

One commenter noted that, because of the lack of understanding of the unsaturated zone and the fact that the DOE concludes that the knowledge of the waste-isolation capability of Yucca Mountain is uncertain, it is unrealistic to compare a site in the unsaturated zone (Yucca Mountain) with four sites in saturated zones.

Response

The DOE acknowledges the lack of understanding of the unsaturated zone at Yucca Mountain. However, there are also uncertainties in the characterization and modeling of the four sites in saturated zones. For example, the mechanism of ground-water flow in salt is uncertain, the role of fracture flow at the bedded-salt sites is uncertain, and the magnitude of vertical conductivity at the basalt site has not been quantified. The DOE has not concluded that the waste-isolation capability of Yucca Mountain is uncertain; on the contrary, it expects that the uncertainties in the data base and in the preliminary modeling of the unsaturated zone can be resolved with reasonable assurance during site characterization. The DOE does not consider that a comparison of a site in the unsaturated zone at Yucca Mountain with four sites in the saturated zone is unrealistic.

Issue

One commenter noted that the data base used for the comparative evaluation of Yucca Mountain against the geohydrology guideline consists of two wells in the unsaturated zone and 30 wells in the saturated zone. Additional data from the unsaturated zone are required to base conclusions about geohydrology; data should not be extrapolated from the saturated zone to the unsaturated zone.

Response

The DOE agrees that additional data from the unsaturated zone will be required if the Yucca Mountain site is selected for characterization. However, the preliminary data from the unsaturated zone at Yucca Mountain are considered sufficient for comparative evaluations of sites against the guidelines. The site-specific data base for Yucca Mountain is, in fact, more extensive than the data base for the three salt sites.

Issue

One commenter asked why, in the discussion of favorable condition 2, which is related to hydrologic processes during the Quaternary Period, cyclic fluctuations in precipitation were considered only for the Yucca Mountain site.

Response

The discussion of cyclic fluctuations in precipitation during the Quaternary is emphasized for Yucca Mountain because increased precipitation affects flow through the unsaturated zone and the elevation of the water table, and therefore favorable condition 2 is not present at Yucca Mountain. As stated in the text, similar processes have been evaluated for the other sites, but the effects of these processes are not likely to adversely affect waste isolation; therefore, the favorable condition is present at the other four sites. The text of the final EAs has been revised to discuss Quaternary hydrologic processes at each of the sites in greater detail.

Issue

One commenter recommended that the discussion of ground-water-travel time at Yucca Mountain, specifically travel through the Calico Hills nonwelded tuff unit, be clarified.

Response

The suggestion was accepted, and the discussion has been clarified.

C.3.4.1.3 Geochemistry

The comments about the comparative evaluation of sites against the geochemistry guideline covered inconsistencies in the discussion of geochemical conditions in Chapters 6 and 7 of the EAs, disparities in the data available for the various host rocks, and specific suggestions for the findings made for particular sites.

Issue

One commenter was concerned with disparities in the comparison of the sites with respect to the availability of data and the types of data for the geochemistry guideline. Favorable conditions 1 through 4 compare sites on the basis of various conditions that lead to a common result

(i.e., isolation). It is not understood how distinct properties like oxidation-reduction conditions and sorptive properties can be equated, especially in light of differing uncertainties.

Response

Uncertainties in the geochemistry of all sites are admittedly present, and the geochemical data base for the sites varies with respect to the types as well as the amount of data. The definitive data for each site will be collected during site characterization. However, the data that are available are adequate for the purposes of the EAs. Geochemical data have been collectively evaluated in the preliminary performance assessments reported in Chapter 6 as the data relate to radionuclide solubility and retardation with respect to EPA standards (EPA, 1985) and NRC criteria (NRC, 1983).

Issue

A commenter criticized the DOE for its subjective treatment of available data to arrive at subjective conclusions as to which site is better than the other. Statistical procedures were then applied to the DOE's "subjectively determined data (rankings under each guideline)" to arrive at the best of five sites. The commenter also felt that the "subjective" conclusions were compounded by the ranking method.

Response

The DOE used the available data from each site, which includes site-specific data as well as regional data, plus professional judgment in order to perform a comparative evaluation of the sites against the guidelines. As already mentioned, the shortcomings of the ranking method used in the draft EA have been corrected.

Issue

The reviewer states that a major shortcoming with the draft EA for the Hanford site is that major concerns are evaluated "with short-term projections." Thus, the EA does not address the long-term problems that are posed by long-lived radionuclides (i.e., thousands of years).

Response

It is assumed that "major concerns" include waste-package lifetime, ground-water-travel time, and radionuclide release rate and retardation. Contrary to the impression of the reviewer, each of these concerns has been evaluated with respect to long-term waste containment and waste isolation. For example, the mean lifetime of the waste-package container is expected to be approximately 6,100 years $\pm$ 600 years on the basis of the corrosion rate.

Issue

One commenter said that the Hanford site does not have the advantages of salt. Salt provides excellent radiation shielding, is chemically active with regard to radiation-generated products, and has a higher thermal conductivity than basalt.

Response

Basalt and the associated ground water have significant advantages over salt (e.g., low oxidation-reduction potential, high sorptive capacity). It is true that salt and brine are chemically active when exposed to radiation; however, this reactivity makes salt somewhat less desirable than basalt. For example, gamma and alpha radiations produce more oxidizing products (from radiolysis) in a brine than in fresh water. In addition, rock salt is a poor sorbant for radionuclides. While it is true that salt has a higher thermal conductivity than basalt, the presence of water in the repository at Hanford would aid in the transfer of heat from the area.

Issue

One commenter felt that the salt sites should not be assigned a finding of "not present" for favorable condition 5 solely on the basis of data inadequacy. This party also questioned why such data needs were not investigated in the site-screening process that led to the identification of potentially acceptable sites.

Response

The mineralogic and chemical properties of salt deposits and the associated ground water are not conducive to the physical and chemical retardation of radionuclides (e.g., rock salt has poor sorption properties and brine further inhibits sorptive processes). On this basis, it was deemed conservative to assign the finding of "not present" for favorable condition 5.

Issue

One commenter noted that, even though high salinity inhibits the formation of colloids and particulates, the discussion for the Deaf Smith site suggests that all aquifers at the site contain saline water. It was noted that the upper aquifers contain fresh water.

Response

The discussion has been corrected in the final EA.

Issue

One commenter noted that the Deaf Smith site has no known radionuclide-sorbing minerals.

Response

Little work has been done on the mineral composition of the rock formulations at the Deaf Smith site. Preliminary work by the Texas Bureau of Economic Geology has shown that clay minerals may be present in the muds and mudstone interbeds of the Unit 4 halite of the San Andres Formation. However, because of the preliminary nature of this work, no credit is taken for sorption at the Deaf Smith site. This is noted in the final EA.

Issue

A commenter said that the Richton Dome site should be ranked lower than the Deaf Smith and the Davis Canyon sites for geochemistry because the "accessible environment" is defined as the edge of the salt stock and does not include adjacent aquifers and their retardation properties. Credit for the travel of radionuclides through the adjacent aquifers is irrelevant to the evaluation of the site.

Response

Because of the paucity of data for all of the salt sites, no credit is taken at present for the retardation characteristics of adjacent aquifers at any of these sites. While it is expected that additional retardation of radionuclides within these aquifers will take place, it is not possible to estimate the significance of such retardation effects without site-specific data. Thus, for the sake of conservatism, no credit for retardation in adjacent aquifers has been taken for any of the salt sites.

Issue

One reviewer noted that the radionuclide-complexing effects of carbonate are described in Chapter 7, mentioned only in passing in Chapter 3, and not mentioned at all in Chapter 6.

Response

A more balanced discussion of carbonate now appears in all three chapters.

Issue

One reviewer felt that the presence of carnallite, organic matter, and hydrocarbons at the Davis Canyon site and their absence at the Deaf Smith site should result in Davis Canyon being ranked lower than, or at least equal to, Deaf Smith.

Response

In the final EA, the Davis Canyon and the Deaf Smith sites are considered to have approximately equal geochemical properties. The uncertainties regarding organic materials (including hydrocarbons) are great because of the paucity of data for both sites. The available data indicate that carnallite may not be a problem at the Davis Canyon site because the carnallite-bearing zone apparently thins in the direction of Davis Canyon; however, this is also uncertain. Potential problems at the Deaf Smith site include the presence of mudstone interbeds and intercrystalline muds that contain clay minerals. Both carnallite and the muds and mudstone interbeds may provide high-magnesium brines during the lifetime of the repository.

Issue

A commenter expressed concern that a statement in Chapter 7 to the effect that the clays at the Swisher and the Deaf Smith sites would "strongly enhance" the sorption of radionuclides is not supported by the discussion in Chapter 6.

Response

In Chapter 7 of the final EAs no credit is taken for the sorptive properties of clays at either the Swisher or the Deaf Smith site.

Issue

One commenter noted that, in regard to favorable condition 2 of the geocemistry guidelines, Chapters 6 and 7 state that "brines will tend to promote the agglomeration of some types of colloids" and that the highly saline ground waters at the Richton Dome will inhibit the formation of colloids. On the basis of the evaluation in the draft EA, it cannot be unequivocally claimed that the evidence supports a favorable finding for this condition.

Response

It should be noted that favorable condition 2 covers a number of geochemical mechanisms, one of which is the formation of colloids. The final EA states that too little is known about particulates, colloids, and organics at each site to evaluate them at this time; favorable condition 1 is evaluated on the basis of other, and better-known, geochemical mechanisms.

Issue

A commenter pointed out that the Richton Dome is ranked lower than the bedded-salt sites, partly because the ground water at Richton is "less reducing than that of the bedded salt sites." The commenter claimed that the data do not support this statement.

Response

This discussion has been modified in the final EA. All three salt sites are now considered to be equal in terms of geochemical conditions, partly because of the paucity of data.

Issue

Some commenters noted that potentially adverse condition 3 of the geochemistry guideline (oxidizing conditions) is present at Yucca Mountain but was not considered in the overall evaluation of the five sites in Chapter 7.

Response

This omission is acknowledged. Potentially adverse condition 3, which is present only at Yucca Mountain, has been considered in the evaluation of the five sites in the final EA.

Issue

One reviewer suggested that, because the Yucca Mountain site is in the unsaturated zone and is not expected to become saturated with infiltrating surface water, the presence of oxidizing conditions (potentially adverse

condition 3) is irrelevant. The lack of ground water in the Topopah Springs Member of the Paintbrush Tuff suggests that this condition does not apply to this site.

Response

This condition does apply because ground water, as defined in the guidelines, includes the water in the unsaturated zone whether transient or trapped in pore spaces.

Issue

A commenter noted that a statement in Chapter 7 indicates that no heat-induced alteration of zeolites in tuff at Yucca Mountain is expected. This is inconsistent with Chapter 6, which states that heulandite and smectite may be adversely affected by the heat emitted from the waste emplaced in the repository.

Response

This inconsistency has been corrected in the final EA.

C.3.4.1.4 Rock characteristics

Issue

Two commenters disagreed that "phenomena that could affect isolation... are not expected to have significant effects at any of the sites," as stated on page 7-27 of the draft EAs. One of them said that this statement revealed the DOE's intention of not using certain guidelines.

Response

The cited statement was poorly worded. It should have read "phenomena that could affect isolation...are not expected to produce effects exceeding regulatory limits at any of the sites." As can be seen from Chapters 6 and 7 of the draft and final EAs, each site was evaluated against every technical guideline, and every technical guideline was used in the comparative evaluation of sites.

Issue

One commenter felt that the summary section did not give a detailed explanation of the expected effects of brine migration at each site.

Response

Brine migration is discussed in Section 6.3.1.3.6 of each EA.

Issue

One commenter felt that on favorable condition 2 for postclosure rock characteristics all sites could be given a finding of "present," but should

not be considered equal. The commenter felt that the salt sites should be given a higher rating because more of the three conditions specified--high thermal conductivity, low coefficient of thermal expansion, and sufficient ductility to seal fractures--have been demonstrated in salt.

Response

In the final evaluation of sites for recommendation for site characterization, the postclosure guideline on rock characteristics--including the cited favorable condition--is only one of the three guidelines grouped together in a major consideration that examines the effects of repository-induced heat.

Issue

One commenter asked whether rock porosity has been adequately measured.

Response

Since the largest specimens sampled to date are the cores from exploratory drilling, this is the size of specimens on which porosity has been measured. Larger-scale measurements of porosity can be made indirectly by geophysical logging techniques. Larger-scale measurements of porosity will be made during site characterization.

Issue

One commenter requested that the differences between the expected performance of the saturated and the unsaturated zones be mentioned in the discussion of postclosure rock characteristics in the EA for the Hanford site.

Response

The DOE recognizes that there are distinct and different advantages to each of these emplacement conditions. Since the candidate horizon at the Hanford site is in the saturated zone, it is inappropriate to describe the advantages of the unsaturated zone in the EA for the Hanford site.

Issue

One commenter requested that the magnitude of the thermal pulse be discussed in the EAs, to evaluate its significance for the postclosure guidelines.

Response

The effects of heat are described in Sections 6.3.1.3.4, 6.3.1.3.6, and 6.3.1.3.7 of the EAs. Not all the expected effects of heat are discussed in a particular section.

Issue

One commenter asked whether fractures can be thermally induced.

Response

Fractures can be thermally induced, but fractures have not been observed to be sizable under dry conditions. Thermally induced fractures usually occur from rapid increases or decreases in the heat content of a rock or through heat loadings that would be far more severe than those of a repository. Additional data on the potential effects of thermally induced fracturing on repository performance will be gathered during site characterization.

Issue

One party felt that, according to the results in Table 7-17, the basalt site (Hanford) should be ranked higher than the Deaf Smith site.

Response

In regard to Table 7-17 of the draft EAs, the commenter is correct.

Issue

A commenter disagreed with the finding for the Hanford site of "not present" for potentially adverse condition 2 of the rock-characteristics guideline, saying that "the potential for thermally induced fracturing and for the dehydration of fracture (infilling) material is present at the Hanford site, though it may occur only in areas near individual waste packages."

Response

The reasoning behind the finding of "not present" for potentially adverse condition 2 for this guideline is given in Section 6.3.1.3.6 of the final EA for the Hanford site.

Issue

One commenter questioned the basis for the statement that potential stability problems would not affect the containment and isolation capability of the Hanford site.

Response

At the Hanford site, all excavations would be backfilled before closure, but there would be some limits to the degree of rock adjustment that can take place. The Hanford site is not initially taking credit for the containment capability of the host rock and intends to demonstrate that the site performs acceptably without taking credit for travel through the dense interior.

Issue

One commenter felt that the evaluation of the Richton Dome site against the postclosure guideline on rock characteristics should consider the presence of anomalous zones.

Response

The DOE acknowledges this concern and has expanded Sections 6.3.3.2.1 and 6.3.1.3.2 in the final EA for the Richton Dome to discuss this topic.

Issue

One commenter asked why the Davis Canyon and the Deaf Smith sites were ranked close together on postclosure rock characteristics when the discussion for the preclosure guideline on rock characteristics indicates more-substantial differences between the sites.

Response

The term "flexibility" is considered to have a different meaning in the preclosure and the postclosure guidelines. Before closure, the DOE is concerned about whether a repository can be constructed. For the postclosure period, the DOE is concerned about how well the host rock (and other components) will isolate the waste from the accessible environment. Thus, the flexibility portions of the two guidelines are not equivalent. The preclosure and the postclosure evaluations are consistent with the intent of each guideline.

Issue

One commenter felt that insufficient credit has been given to the Davis Canyon site for the higher rock strength that results from a lack of clay insolubles in the host rock.

Response

Because of the lack of data from boreholes, rock strength at the Davis Canyon site is associated with a high uncertainty. Salt in general is a low-strength rock and is described as such in Section 6.3.1.3 of the EA for Davis Canyon. To claim an advantage for the Davis Canyon site at this time is not considered conservative.

Issue

One commenter stated that at the Davis Canyon site the carnallite contained in the rock salt would melt at repository operating temperatures, producing corrosive brine and volume changes.

Response

The corrosive effects of carnallite are discussed in Section 3.2.7 of the EA for Davis Canyon. The volume percentage of carnallite is small, and the effect of melting such a small volumetric fraction is not considered significant at present.

Issue

One commenter was concerned that at the Davis Canyon site the repository horizon would be the uppermost salt bed (salt cycle 6), and hence the salt barriers to the upward migration of radionuclides would be minimal.

Response

The significant Pennsylvanian and Permian strata overlying the host rock would provide an adequate barrier. Furthermore, the hydrologic gradients at the site are predominantly downward.

Issue

One comment about the Davis Canyon site said that thermal uplift will cause fracturing in the upper 625 feet of the overburden above the site, including extensive portions of the Cedar Mesa and the Elephant Canyon Formations, both of which supply water to wells and springs in the Canyonlands National Park.

Response

Thermal uplift has been calculated to provide a maximum lift of approximately 1 meter. Thermal dispersion would probably prevent this uplift from seriously displacing strata and interrupting aquifer continuity.

Issue

One commenter felt that the Yucca Mountain site should be ranked more highly on postclosure rock characteristics than the Deaf Smith site because Yucca Mountain appears to be more favorable in Table 7-3.

Response

The principal reason for this apparent discrepancy is explained in the fourth paragraph on page 7-27 of the draft EAs.

C.3.4.1.5 Climatic change

Issue

One reviewer questioned whether it is worth worrying about an increased precipitation and runoff in the next 10,000 years and the potential for perched water that might intersect the repository shaft.

Response

The DOE agrees. Such a scenario does not appear in the final EA.

Issue

A reviewer said that the Hanford site should be ranked lowest on the climatic-change guideline because of the potential for catastrophic flooding and lakes, as evidenced by recent catastrophic flooding.

Response

The Hanford site would not be affected by catastrophic flooding after repository closure because such flooding occurs on the surface and the shafts and boreholes would be sealed.

Issue

The reviewer inquired as to whether changes in surface-water conditions at the salt sites could increase salt dissolution and why these changes were not considered.

Response

This question is addressed in Section 6.3.1.4.2 of the draft and the final EAs for the salt sites.

Issue

One party noted that, in the climatic-change guideline, the conclusion for potentially adverse condition 1 for the Deaf Smith site is based on available data for the Quaternary Period. Yet the discussion on favorable condition 2 states that data for the Deaf Smith site are insufficient to determine the effects of changes on the hydrologic system.

Response

Potentially adverse condition 1 and favorable condition 2 are quite different. The latter states that climate changes have had little effect on the hydrologic system, whereas the potentially adverse condition states that climate changes could affect the ground-water flow system to significantly increase the transport of radionuclides to the accessible environment. Thus, the available data are adequate to address one, but not the other, condition.

Issue

One comment pointed out that an increase in the recharge and discharge of aquifers may not alter permeability within a salt sequence but might increase salt dissolution at the salt-rock interface and salt margins.

Response

While dissolution in these areas may be increased during times of increased recharge and discharge, the calculated rates of dissolution are conservative to account for any additional dissolution that may result from the increased availability of water.

Issue

The sites are ranked equally with respect to climatic change, yet Table 7-4 seems to rank Yucca Mountain slightly better than the other sites.

Response

In Table 7-4 of the draft EAs the Yucca Mountain site shows "not present" for a potentially adverse condition related to a potential rise in the water table. This applies only to Yucca Mountain; the other sites are below the unsaturated zone.

C.3.4.1.6 Erosion

A number of commenters expressed concern that the DOE has not adequately considered all information in the comparative evaluation of the sites against the guideline on erosion. The issues raised include changes in the ranking of sites, the relative importance of the potentially adverse and favorable conditions, and specific comments on erosion at Yucca Mountain and Hanford.

Issue

One commenter proposed that all sites except Yucca Mountain be ranked equal on the erosion guideline; Yucca Mountain should have a lower ranking because the repository would be closer to the surface.

Response

As stated in the draft EA, the objective of the erosion guideline is to ensure that erosional process acting on the surface will not be likely to lead to radionuclide releases greater than those allowed by regulations. The ranking evaluations in the draft EA were based on the qualifying, favorable, and potentially adverse conditions as they influence this objective.

Issue

One party argued that the favorable and potentially adverse condition for the erosion guideline are not of equal importance and should not be treated as equal.

Response

The DOE agrees. The qualifying condition relates to the requirements of 40 CFR Part 191, as implemented by the provisions of 10 CFR Part 60, and therefore the second favorable condition, if it is present, is the most significant because, according to 40 CFR Part 191, events with less than one chance in 10,000 over 10,000 years need not be considered in assessing postclosure performance. In general, if favorable condition 2 is present at a site, favorable condition 3 also is likely to be present and both potentially adverse conditions are likely to be absent. Because favorable condition 2 is present at all sites, all sites are rated equal with respect to the qualifying condition.

Issue

For the Hanford site, questions were raised regarding the proposed depth of the repository versus favorable condition 1 and the erosion depth from regional base levels discussed in favorable condition 2.

Response

Favorable condition 1 does not limit the depth of a repository; it merely says that ability to emplace waste at least 300 meters below the surface is favorable. The regional base levels in the draft and final EA for Hanford should be considered as bounding estimates, not as best estimates. Even under bounding estimates, Hanford was found to have favorable condition 2 and thus is rated the same as the other sites.

Issue

One commenter expressed concern that the evaluation of Yucca Mountain did not fully take into account portions of the repository whose depth is less than 300 meters.

Response

As reported in the draft and the final EA for Yucca Mountain, the minimum thickness of the overburden above the underground facility is about 230 meters, at the western edge of the primary area. However, for about 50 percent of Yucca Mountain the overburden is more than 300 meters thick. Because all of the repository would be at a depth greater than 200 meters, the site would not be disqualified. As stated in the draft EA, the fact that Yucca Mountain does not possess favorable condition 1 (waste emplacement below 300 meters) does not appear significant, because an evaluation of erosion rates for Yucca Mountain, applied to the 230-meter minimum depth, indicates that erosion would not significantly affect waste isolation over the next 10,000 years.

C.3.4.1.7 Dissolution

Issue

One reviewer felt that the draft EA did not consistently treat the favorable and the potentially adverse condition under dissolution for the three salt sites.

Response

The dissolution section in the final EAs has been revised to present a more consistent discussion of the two conditions for the salt sites.

Issue

One commenter objected to the statement that no significant dissolution has been identified at the Deaf Smith site because the statement is based on data from a well 3 miles from the site and seismic-reflection data that do not "cover" the site.

Response

While the available data from the area of the site do not unequivocally show that there is no dissolution at or near the site, data from boreholes, seismic-reflection measurements, as well as surface mapping have uncovered no evidence that significant dissolution occurred beneath the Southern Highlands at any time during the Quaternary Period.

Issue

One reviewer asked why the Pennsylvanian faults that occur 7 miles from the Davis Canyon site were not mentioned in the discussion on dissolution and whether the rates at which dissolution fronts are migrating could increase with the predicted increase in precipitation.

Response

The faults described by the reviewer die out in the lower part of the Paradox Formation; these faults have no surface expression. In addition, no indication of dissolution has been observed to be associated with these faults. In regard to the second question, no dissolution fronts have been identified in the study area. Discrete dissolution features like Lockhart Basin and Beef Basin may be affected by an increase in precipitation; however, the current rate of dissolution is not known.

Issue

One commenter objected to Yucca Mountain's receiving a finding of "not present" for the potentially adverse condition under the dissolution guideline. The repository would be near the breccia of the Solitario Canyon fault zone, which the draft EA does not discount as a dissolution phenomenon. Therefore, unless sufficient data are available to show that the fault is not related to caldera collapse, it should be assumed that the fault is a dissolution feature and the Yucca Mountain site should be considered as having this potentially adverse condition.

Response

The solubility of tuff in ground water is extremely low; furthermore, the hypothesis that the Solitario Canyon fault is a dissolution feature is not credible. Any breccia associated with the fault zone is of tectonic origin, and there is no logical reason to believe that the fault is the result of dissolution.

C.3.4.1.8 Tectonics

A number of commenters expressed concern that the DOE did not adequately consider all information in determining numerical ratings for the postclosure guideline on tectonics. Among the issues raised were the treatment of preexisting faults at the Deaf Smith site, the potential for diapirism in general and salt movement at the Gibson Dome as it relates to Davis Canyon, and the level of tectonic activity at the Yucca Mountain site.

Issue

One commenter wanted to know how preexisting faults at the Deaf Smith site were treated in the comparative evaluation against the postclosure guideline on tectonics.

Response

The evaluation of tectonic and igneous events is based on our understanding of those processes during the Quaternary Period. Faults that have been active during the Quaternary are more likely than older faults to be active now and for the next 10,000 years. The Deaf Smith site is different from the Davis Canyon site because Quaternary faults have been identified near Davis Canyon but not near Deaf Smith. Thus, Deaf Smith is more favorable with respect to Quaternary faults.

Issue

Some commenters asked why diapirism was not discussed in the comparative evaluation of sites, citing the Gibson Dome in Utah as a structure in which salt movement continues today.

Response

Potentially adverse condition 1 of the postclosure tectonics guideline is based on evidence of active tectonic processes, including diapirism. Although not explicitly discussed in Chapter 7, diapirism was evaluated in the draft EAs for the salt sites. As explained in Chapter 6 of the EAs, there is evidence that diapirism has not been active at any of the three salt sites during the Quaternary Period.

In regard to the Gibson Dome, the final EA for Davis Canyon explains that some degree of salt flow has occurred within the evaporite units near the Davis Canyon site, but the area of the site generally contains relatively undisturbed bedded salt.

Issue

Several comments pertained to the level of tectonic activity at the Yucca Mountain site and the treatment of tectonics in site evaluation.

Response

The evaluation of sites against the postclosure guideline on tectonics is primarily concerned with the effects of tectonic events on waste containment and isolation. As stated in the draft EA, the available data do not suggest that tectonic events at Yucca Mountain, Davis Canyon, and Hanford could both alter the hydrologic flow system and lead to radionuclide releases after repository closure. An accurate evaluation against the postclosure guideline on tectonics includes not only an assessment of the probabilities of events but also an assessment of whether an event could adversely affect the repository system.

In the final EA for the Yucca Mountain site, the discussion of repository performance has been expanded in Chapter 6 because the tectonic activity warrants additional discussion. The revised discussion adds perspective to issues on postclosure tectonics. It includes such factors as ground-water flux and travel time, waste-package integrity, the careful consideration during repository development of recognizable faults that appear to have any possibility of movement, and the geochemical capabilities of the site. While many studies remain to be completed, particularly with respect to probabilities, preliminary assessments of system performance suggest that tectonic events are not likely to lead to radionuclide releases in excess of regulatory limits.

Issue

One commenter argued that the DOE failed to identify or evaluate the seismic risk at Yucca Mountain (as shown in a map of seismic risk produced by the U.S. Geological Survey). The map clearly shows that Yucca Mountain is in a region of major seismic risk. The seismic risk in this region is much higher, in fact, than that at any of the other sites.

Response

The draft EAs recognize that the tectonic hazard at the Yucca Mountain site is higher than that for the other sites (page 7-116). Both the postclosure and the preclosure rankings (pages 7-44 and 7-115) reflect this relative comparison.

If the Yucca Mountain site is selected for characterization, site-specific estimates of seismic hazards will be made during characterization. In parallel with this, each site will be evaluated for the significance of tectonic hazards with respect to the total risk.

C.3.4.1.9 Natural resources

A number of commenters expressed concern that the DOE did not adequately consider all information in ranking the sites for the postclosure guideline on natural resources. The issues raised include the evaluation of future resources and the use of artificial markers as well as specific comments on resources at Deaf Smith, Davis Canyon, Hanford, and Yucca Mountain.

Issue

One commenter pointed out that the resources of today may not be the resources people will seek in the distant future.

Response

The evaluation of natural resources has been based on "reasonable projections of value, scarcity, and technology," as stated in the qualifying condition of the guideline. This statement is meant to reflect the NRC's 10 CFR Part 60, which states that the evaluation of the resource potential should consider whether economic extraction is currently feasible or potentially

feasible during the foreseeable future. Thus the goal of natural-resource assessment is to ensure an acceptably low likelihood of postclosure human activities that would be detrimental to waste containment or isolation. This does not mean that the future development of a "new" resource can be absolutely ruled out, but, on the basis of our present understanding, this potential can be minimized. Furthermore, it is expected that permanent markers and records will also reduce the potential for human interference at the repository site.

Issue

One party commented that Chapter 7 of the draft EAs contained no more than a passing mention of artificial markers and asked whether there are any site-specific factors affecting the use of such markers.

Response

As stated in the qualifying condition for the postclosure guideline on natural resources, in assessing the likelihood of postclosure intrusion, the DOE will consider the estimated effectiveness of permanent markers and records. In evaluating the sites against the guidelines, the EAs qualitatively considered the effectiveness of markers and records in reducing the likelihood of human intrusion within the controlled area.

Issue

One party said that the Hanford site has a potential for ground-water resources and natural gas and should be disqualified for that reason.

Response

As discussed in the final EA for the Hanford site, the finding for potentially adverse condition 1 has been changed from "not present" to "present" because of the potential uses of ground-water resources and natural gas. It should be noted, however, that although source beds (for hydrocarbons) may exist beneath the basalt, present exploration activity has not found adequate evidence of significant concentrations of any mineral or rock that is unique to the Hanford site. The geothermal potential of the site is considered nonfavorable. The revised evaluation of the Hanford site is based on the latest information on the potential for hydrocarbon and other resources. As the potential for resource extraction is by nature speculative and the use of permanent markers and records will assist in reducing the likelihood of human intrusion within the controlled area to very low values, the Hanford site should not be disqualified because of the potential for natural resources.

Issue

One commenter suggested that the EA for Davis Canyon evaluate ground water and the Colorado River as valuable natural resources. Another commenter noted that, although Chapter 7 suggests that only minor aquifers exist above the host rock at Davis Canyon, the Cedar Mesa sandstone aquifer, which overlies the host rock, is used as a water supply for the Canyonlands National Park.

Resources

As discussed in the final EA for Davis Canyon, ground-water use in the area and vicinity of the site is minimal. Existing wells yield small quantities of ground water from the Glen Canyon Group as well as the Cedar Mesa and Cutler strata; however, these wells are less than 400 feet deep. As such, ground water is not expected to have an adverse effect on the ground-water flow system. Section 3.3.1.5 of the final EA discusses water availability and demand, including the amounts of water available from the Colorado River in a Davis Canyon region. Because the Colorado River is too far for its use to be practical, it was not considered significant as a potential resource that would directly affect the Davis Canyon site.

The commenter is correct in noting that the Cedar Mesa sandstone aquifer supplies water for Canyonlands; however, this aquifer is not highly productive at the Davis Canyon site. As summarized in Chapter 3 of the draft EA, this aquifer produced only a few gallons per minute from its entire thickness at well GD-1.

Issue

One party questioned the assessment of natural resources at Yucca Mountain, saying that the mineral potential had been ineffectually evaluated.

Response

As discussed in the final EA for the Yucca Mountain site, there are no energy or mineral resources for which economic extraction is feasible in the foreseeable future. The DOE does not agree that the mineral potential of the site has been ineffectually evaluated. The evaluation is based on a review of the literature, exploration and geologic mapping by the U.S. Geological Survey, and geochemical analyses of cores and cuttings taken from boreholes at and near Yucca Mountain.

C.3.4.1.10 Site ownership and control

Issue

The draft EA states that there is no basis for distinguishing among the sites in terms of site ownership and control at the beginning of the postclosure period, and therefore all sites were ranked equally on this guideline. One commenter asked why, if this is correct, land ownership is one of the guidelines.

Response

The postclosure guideline on site ownership and control is included in the siting guidelines to ensure consistency with the portion of NRC regulations in 10 CFR Part 60 that addresses the long-term control of the

site by the DOE (10 CFR 60.121). In addition, this postclosure guideline is distinguished from the preclosure guideline on site ownership and control in two ways. First, the favorable condition for the preclosure guideline refers to the control of "...all surface and subsurface mineral and water rights by the DOE," whereas the favorable condition for the postclosure guideline refers to the "control of land and all surface and subsurface rights by the DOE." Second, the preclosure guideline is directed at the DOE's ability to control access to the site during repository operation, under the requirements of the system guideline for radiological safety. The postclosure guideline, in contrast, is a part of the human-interference guideline (960.4-2-8), which is intended to ensure that future generations will not compromise the integrity of the repository. Thus, although the DOE does not believe that there is currently a basis for discriminating among sites on the basis of postclosure site ownership and control, the guideline serves a necessary function in the siting process.

C.3.4.2 Comparison of sites on the basis of preclosure guidelines

The preclosure guidelines are divided into three groups, in order of decreasing importance: (1) preclosure radiological safety; (2) socioeconomics, environment, and transportation; and (3) ease and cost of siting, construction, operation, and closure. The issues raised in comments on the evaluation of the sites against these guidelines are summarized and addressed in this section.

C.3.4.2.1 Preclosure radiological safety

The preclosure guidelines on radiological safety consist of four separate guidelines: (1) population density and distribution, (2) site ownership and control, (3) meteorology, and (4) offsite installations and operations.

C.3.4.2.1.1 Population density and distribution

Issue

Many commenters stated that the evaluation of the Hanford site against the guideline on population density and distribution did not take into account the approximately 12,000 workers that the DOE and its contractors currently employ at the Hanford Site or the 3,500 of these 12,000 workers who work in the vicinity of the potential repository site. These commenters stated that the objective of the guideline is to protect the health and safety of both the public and repository workers and that the evaluation presented in the draft EA ignored the safety of the Hanford workers. Several of these commenters said that it is ridiculous to argue that the 3,500 Hanford workers in the vicinity of the site are "not members of the general public" as the draft EA states on page 7-57. Others insisted that the presence of these Hanford workers constitutes a high daytime population density for the site.

Response

The DOE agrees that the 3,500 Hanford workers must be considered members of the general public for the purposes of this evaluation. However, these persons work in the general vicinity of the site and not, as the guideline condition stipulates, "within the projected site boundaries."

Issue

One commenter noted that the draft EA reported the population density for the Hanford site as 43 persons per square mile and for the Richton Dome site as 40 persons per square mile, but nonetheless the Hanford site received a much higher score on this guideline than did the Richton Dome.

Response

The guideline on population density and distribution requires the DOE to evaluate the remoteness of the site from highly populated areas in addition to the population density of the general region of the site. While the population density is similar for both sites, the controlled area of a repository at the Richton Dome site would be adjacent to the town of Richton.

Issue

A few commenters stated that the evaluations of sites against the first favorable condition of the guideline on population density and distribution should consider transient populations. These commenters suggested that this condition might affect the population density given for the Davis Canyon site.

Response

Transient populations are explicitly considered by the first potentially adverse condition, which addresses high residential, seasonal, or daytime population densities within the projected site boundaries. Chapter 7 of the final EA also addresses such transient populations as users of offroad vehicles. These considerations do not significantly affect the population density for the Davis Canyon site.

C.3.4.2.1.2 Site ownership and control

Issue

Many commenters stated that the ranking of the Yucca Mountain and the Davis Canyon sites--both of which are on land owned by the Federal Government-- below the Richton Dome and Deaf Smith sites is indefensible and highly artificial. They insisted that to transfer land belonging to the Federal Government is easier than obtaining private land. One person said that persons who face the loss of their property will go through every legal means possible to keep their land. Another pointed out that the acquisition of private land is time consuming and expensive and that affected landowners have testified that they will not enter into voluntary leases or purchase-sell

agreements; this commenter claimed that even identifying all of the affected owners of surface and subsurface rights will take time, given the large number of owners involved.

Two commenters noted that the Congressional action described as necessary in the draft EA for the Yucca Mountain and Davis Canyon sites would not be necessary until the time, or after, Congress approves the site for a repository, pursuant to Section 115 of the Act. They felt that it was ridiculous to argue that Congress would override a State veto of a site selection and then fail to expeditiously transfer land title to the DOE. All of these commenters therefore recommended ranking the Yucca Mountain and the Davis Canyon sites above the Richton Dome and the Deaf Smith sites because they believe that the transfer of land between Federal agencies is easier than obtaining private land.

One commenter stated that to obtain land at the Richton Dome site would create major, negative, and highly disruptive impacts for innocent citizens and that these impacts could be avoided at either the Yucca Mountain or the Davis Canyon site. Another party suggested that the Richton Dome site should be ranked below the Deaf Smith site because the privately owned land at Deaf Smith is agricultural land, of which there is no shortage.

Response

The guideline addresses only the complexity of procedures for acquiring the needed land. The complexity of these procedures does not necessarily reflect the value of the land or the associated social or economic impacts. The DOE is aware of the socioeconomic impact of acquiring lands, especially privately owned lands, and the socioeconomic aspects of land acquisition are considered under the socioeconomics guideline. For example, the DOE recognizes that the condemnation of privately owned lands could disrupt the lives of displaced landowners.

Issue

One commenter recommended that the Richton Dome site be ranked last, just below the Deaf Smith site, because there are more landowners at Richton Dome than at Deaf Smith.

Response

The DOE has not determined exactly how many landowners there are at the Deaf Smith and the Richton Dome sites. If one or both of these sites are recommended for site characterization, the DOE will identify the affected landowners as part of the formal land-acquisition process.

C.3.4.2.1.3 Meteorology

Issue

One commenter stated that it is not possible to make a comparative evaluation of the sites against the meteorology guideline, because of the lack of data and inconsistencies in the types and quantities of data available for the various sites.

Response

The siting guidelines acknowledge that complete data would not be available for all evaluations of the sites against the guidelines. The guidelines provide for evaluating sites on the basis of available data. In evaluating the sites against the meteorology guideline, the DOE used best estimates based on available data and conservative assumptions.

Issue

Several persons commented on population considerations under the guideline on meteorology. One commenter stated that the size of offsite populations has not been appropriately considered under the ranking. Another noted that site comparisons would be facilitated if all EAs expressed population density as "persons per square mile" rather than "population densities higher than average." Another commenter requested that the workers employed at the Hanford Site be considered under this guideline.

Response

The meteorology guideline is concerned primarily with meteorological conditions and events that could affect the transport of radioactive materials to persons beyond the boundaries of the site. The characteristics of offsite populations are considered separately under the guideline on population density and distribution. Meteorological information is combined with information about the population to evaluate the sites under the system guideline for preclosure radiological safety. If in comparing the sites against the meteorology guideline the DOE used population characteristics other than those specified by the guideline (i.e., location and density relative to regional density), double counting for population conditions would result.

The workers at the Hanford Site have been considered in determining the regional population density and in the final EA are specifically addressed under the guideline on population density and distribution.

Issue

Some commenters noted that the draft EAs for the Davis Canyon and the Hanford sites were inconsistent in the evaluation of the first potentially adverse condition of the meteorology guideline, and this inconsistency is reflected in the comparative evaluations of Chapter 7. The draft EA for Davis Canyon states that the town of Moab, 33 miles downwind, is close enough for the first potentially adverse condition to be present. However, the draft EA for Hanford says that the downwind city of Richland is sufficiently far from the site (22 miles) for the first potentially adverse condition to be not present. Similarly, the Hanford site, which appears to have more stagnation episodes than Davis Canyon, was ranked higher for dispersion conditions.

Response

The EAs have been revised to take a consistent approach on this condition. They define "prevailing meteorological conditions" to mean the most common annual average wind direction in any 22.5-degree sector and consider nearby population centers to be within a radius of 50 miles from

the site, unless it is possible to document that atmospheric dispersion is sufficient to permit a smaller radius. As a result of this approach, the final EAs for both the Davis Canyon and the Hanford sites consider this potentially adverse condition to be present.

Issue

The Hanford site is not considered to have the second potentially adverse condition, which pertains to extreme weather, although Chapter 3 of the EA shows that part of the site would be inundated by the probable maximum flood and that the area has experienced a maximum snowfall of 24.5 inches.

Response

The second potentially adverse condition refers to the historical frequency of extreme weather. The probable maximum flood is a statistical worst-case flood. The DOE considers the 100-year flood to be an appropriately severe flood for this condition. The record snowfall occurred in 1916 and is not considered representative of recurrent conditions in the area of the site.

C.3.4.2.1.4 Offsite installations and operations

Issue

One person asked the DOE to explain how two sites with the same number of deleterious conditions can have different utility values. Another commenter suggested that the Hanford site be disqualified under this guideline because of conflict with nearby atomic-energy defense activities or, if it can be demonstrated that the conflict is not irreconcilable, that the ranking of the site be significantly lowered.

Response

Section 6.2.1.5 of the EA for the Hanford site demonstrates that there will be no irreconcilable conflict between a repository and nearby atomic-energy defense activities.

Issue

One party asked the DOE to identify the other nuclear installations that contribute to radioactive releases in the area of the Davis Canyon site.

Response

The contributing facilities are three uranium mines. They are discussed in Section 7.3.1.1.4 of the draft EA for the Davis Canyon site.

C.3.4.2.2 Environment, socioeconomics, and transportation

This group of preclosure guidelines consists of separate guidelines on (1) environmental quality, (2) socioeconomic impacts, and (3) transportation.

C.3.4.2.2.1 Environmental quality

Issue

A commenter requested that the sites be compared on the basis of their relative risk to water resources.

Response

The final EAs contain an evaluation of compliance with the ground-water protection requirements of the final EPA standards, 40 CFR Part 191 (EPA, 1985). These standards require that the repository may not cause the radionuclide concentrations in "a special source of ground water" to exceed specified limits for 1,000 years after waste emplacement.

The presence of sources of ground water suitable for crop irrigation or human consumption without treatment is potentially adverse condition 2 of the postclosure guideline on geohydrology. The comparative evaluation of sites did include this condition (see Sections C.3.4.1.2 and C.5.1 for comments on geohydrology). In addition, the comparative evaluation included in the disqualifying condition for the preclosure guideline on socioeconomic impacts pertains to significant effects on the quantity or the quality of water from major water supplies (see Sections C.3.4.2.2 and C.7.4).

Issue

One commenter contended that the EA for the basalt (Hanford) site should acknowledge the presence of potentially adverse conditions regarding (1) projected major conflicts with environmental requirements and (2) significant adverse environmental impacts that cannot be avoided or mitigated. This contention was based on claims of uncontained hazardous materials and controversy over the discharges of radioactive materials from DOE facilities at Hanford.

Response

The guideline on environmental quality is concerned with significant adverse environmental impacts at the repository site. It does not address the effects of unrelated activities.

Issue

One commenter stated that the DOE has not done the work to determine whether or not significant Yakima Indian cultural or religious resources would be adversely affected, especially in light of previous effects on Gable Mountain. He felt that the fifth potentially adverse condition should be considered present at the Hanford site.

Response

Parts of Gable Mountain have been examined by a reconaissance-level study that identified Gable Mountain and Gable Butte as having religious significance to local Indian groups. The DOE maintains that site characterization and repository development can be performed at the Hanford site without exerting any significant adverse effects on any significant Native American religious or cultural resources.

Issue

One person felt that the ranking of the Richton site should be lowered because environmental impacts would be experienced by the persons living at the site.

Response

The nearness of the town of Richton has been given due consideration in the evaluation of that site against the guideline on population density and distribution (see Sections C.3.4.2.1 and C.6.1 for comments on that guideline). To consider the population of Richton in evaluations against the guideline on environmental quality would result in double counting.

Issue

Several commenters said that greater emphasis should be placed on the proximity of the Davis Canyon site to the Canyonlands National Park.

Response

The guideline on environmental quality calls for an assessment of effects on any national parks and of irreconcilable conflicts with a park. The final EA for the Davis Canyon site presents such an evaluation for the Canyonlands National Park; the evaluation uses criteria developed by the National Park Service to test for irreconcilable conflicts. (See also Sections C.3.3 and C.7.1.)

Issue

One person said that the comparative evaluations should consider the uncertainties about the ability of the Deaf Smith site to comply with the requirements of the Texas Mine Shaft Act.

Response

The DOE acknowledges that uncertainties about compliance with environmental requirements should be considered in the comparative evaluation. The evaluation of the Deaf Smith site has been revised to address the uncertainty about compliance with the Texas Mine Shaft Act.

Issue

One commenter asked whether the DOE will guarantee protection of the Ogallala aquifer or, if not, how the DOE proposes to mitigate any releases into the Ogallala.

Response

It is the DOE's position that the quality of the environment at the Deaf Smith site can be adequately protected. Sections 4.2.1.4 and 5.2.2 of the Deaf Smith EA address protection of the Ogallala aquifer.

Issue

Several issues were raised about the Davis Canyon site. One commenter stated that air-quality impacts are double counted, being considered both under the environmental quality and the meteorology guidelines. Several commenters questioned the DOE's ability to determine the presence of an irreconcilable conflict with the Canyonlands National Park, since it appears that the DOE is not fully aware of the Park's designated uses. A commenter felt that, since neither favorable condition is present, the Davis Canyon site should possess both corresponding potentially adverse conditions. A commenter agreed that the site has the third potentially adverse condition, but believes it should have the fourth as well. It was noted by one commenter that the Davis Canyon site discussion should include the possibility of critical habitat. A commenter noted that the findings for the Davis Canyon site under the first and the third disqualifying conditions were based on insufficient data and questioned the statement that repository-related activities will be conducted within the park.

Response

The only evaluation of air-quality impacts occurs under the environmental quality guideline. The meteorology guideline is concerned primarily with radiological safety; it addresses only those meteorological conditions and phenomena that affect the transport of radioactive material to offsite areas.

The DOE has expanded the evaluation of Canyonlands National Park and possible impacts throughout Sections 4.2 and 5.2, with summaries presented in Sections 4.4.1 and 5.5.1. The results of the evaluations show that there will be no irreconcilable conflict with the uses of the park.

The guideline did not intend for the pairs of first and second conditions to be reciprocal. Each pair delineates a possible range for that condition. Therefore it is possible to not have either condition. For example, on the second set the favorable condition is not present because it cannot be projected that impacts will be mitigated to insignificant levels. The corresponding potentially adverse condition is not present, however, because it is projected that significant impacts can be mitigated to acceptable levels.

Because of potential effects on the Newspaper Rock State Historical Monument, the evaluation of the Davis Canyon site was revised to state that the fourth potentially adverse condition is present. A summary of possible critical habitats was added to the comparative evaluation, but the finding for the sixth potentially adverse condition was not changed.

The evaluation of potential effects on the Canyonlands National Park has been revised and expanded, but the finding that the site is not diqualified (see Section 6.2.1.6.4) was not changed. It remains the DOE's position that no repository-related activities will need to be conducted in the Park.

The DOE considers the revised comparative evaluation to place an appropriate emphasis on the proximity of the Davis Canyon site to Canyonlands National Park. This evaluation is supported by Sections 4.4.1 and 5.5.1, which have been added to the EA for the Davis Canyon site.

C.3.4.2.2.2 Socioeconomic impacts

Issue

One commenter stated that, in evaluating the sites on Federal land, acceptance by the local population at present should not be weighted too highly because the acceptance must persist for 1,000 to 10,000 years.

Response

Acceptance by the local population is not directly considered in the comparative evaluation of sites because it is not included in the siting guidelines. Public acceptance, however, may affect the degree of conflict between old and new residents and can be used as an indicator of social impacts. In this light, the DOE does consider public acceptance as a contributing factor to the potential for social impacts. The long duration of the repository is acknowledged by the siting guidelines, which assign primary importance to postclosure conditions.

Issue

One commenter expressed concern over the choice of Hanford as a site for characterization, saying that whether a repository would help to "stabilize general economic conditions" is not as important as the long-term safety of the site. The commenter stated that the Columbia River, which borders on the Hanford Site, is used for irrigation and that site characterization at Hanford could adversely affect the agricultural economies of the States of Washington and Oregon.

Response

In order to be considered for a repository, a site must meet the qualifying conditions of all the siting guidelines. Failure to meet even one condition will disqualify the site. The objective of the guidelines is to ensure that any site selected for a repository will meet all the regulatory requirements for the protection of the health and safety of the public and the quality of the environment. The ability to meet these requirements will have to be demonstrated to the satisfaction of the Nuclear Regulatory Commission, which will issue the authorization to construct the repository.

The DOE does not expect that site characterization for the Hanford site would adversely affect agriculture in the State of Washington or Oregon. Since no radioactive waste would be accepted at the site during this phase, there is no potential for radioactivity to enter the Columbia River through ground-water seepage.

Issue

One commenter suggested that the comparative evaluation of the Deaf Smith and the Richton sites against the guideline on socioeconomic impacts should rank Richton lower. This commenter stated that Deaf Smith's ranking was based on impacts to agriculture, but that we currently have more agricultural land in production than needed. Another commenter suggested that ranking the Deaf Smith site higher than Davis Canyon on socioeconomic impacts was arbitrary because the discussion states that in-migration requiring mitigation will occur at both sites and that effects on agriculture, a major sector of the economy of Deaf Smith County, are possible. Two commenters objected that the DOE had failed to consider any of the most important socioeconomic impacts.

Response

Chapter 7 of the final EAs presents a revised discussion of the comparative evaluation against the socioeconomics guideline, including the reasons the Richton Dome site is believed to be slightly more favorable in terms of socioeconomic impacts than the Deaf Smith site and why it is expected that socioeconomic impacts would be most severe at the Davis Canyon site. For example, Chapter 7 explains why the potential for effects on community services is greater at the Richton Dome site than at the Deaf Smith site and why in-migration would exert more severe effects at Davis Canyon site than at Deaf Smith. Chapter 7 also discusses the agricultural industry near the Deaf Smith site as an important primary sector of the economy that supports significant employment and business sales. The DOE does not believe that the evaluation of potential socioeconomic impacts at the Deaf Smith site can be based on the amount of agricultural land in production in the United States.

The guideline on socioeconomics addresses the most significant impacts that may be induced by a repository. The favorable and potentially adverse conditions of that guideline were widely reviewed by the States, affected Indian Tribes, Federal agencies, and the public during the consultation process for the guidelines.

Issue

Many commenters objected that the 1980 data presented in the draft EA for the Davis Canyon site are out of date and lead to a misrepresentation of the potential socioeconomic impacts of locating a repository in the area. One commenter stated that housing is available in the area, the vacancy rate being 15 to 20 percent. Other persons said that the current unemployment rate reported by the Utah Department of Unemployment Security is 23 percent whereas the draft EA reports 7 percent. Another commenter noted that the area has an abundance of water to sell and that the sewage-treatment plant was built to accommodate an increase in populations, but the area has recently experienced a decrease in population. Similarly, several other parties noted that, whereas in 1980 the area's population was booming, the area is losing population. Others explained that Grand and San Juan Counties had experience in handling "boom" conditions and had successfully handled two uranium and one oil boom. Many commenters pointed out that the testimony at the public hearings in Utah and Texas showed that some residents of southeastern Utah feel that the socioeconomic impacts would be both favorable and manageable,

while the residents of the Texas Panhandle believe that the socioeconomic impacts on the town of Vega and the general agricultural economy would be dramatic and severe. All of these commenters, therefore, suggested that the Davis Canyon site should be ranked higher on the socioeconomics guideline and at least above the Deaf Smith site.

Response

Having considered and evaluated the comments and the information included in them, the DOE has revised the discussion of milling operations in the area of the Davis Canyon site. The recent suspension of mining and milling operations in the area has caused local socioeconomic conditions to change, with currently greater housing availability, higher unemployment rates, lower school enrollments, lower per capita incomes, and greater out-migration. Section 3.6 of the EA for Davis Canyon has been updated in regard to information on housing, personal income, unemployment rates, school enrollment, and the total population.

The DOE, however, does not believe that the Davis Canyon site should be considered more favorable than the Deaf Smith site for socioeconomics. Davis Canyon is still the only site where the analysis predicts significant repository-related impacts on community services, housing supply, and local government agencies in the affected area (see the evaluations of the sites against the first favorable and the first potentially adverse conditions of the socioeconomics guideline).

Issue

One commenter asked the DOE to clarify the first full paragraph on page 7-84. This paragraph, which discusses potentially adverse conditions for socioeconomics, states that "at Davis Canyon, water requirements are also not expected to adversely affect future development; however, this judgment is preliminary, as there is some uncertainty about potential short-term disruption of the area water supply during repository construction at this site." The commenter asked whether this statement implied disruptions of ground water at the site.

Response

The statement does not imply disruptions of ground-water systems at the site. The judgment is preliminary because it depends on the completion of two new reservoirs in the Blanding and Monticello areas. The San Juan Planning Council expects to build these two new reservoirs to take care of economic development needs and is willing to sell or lease part of its appropriations.

Issue

One commenter asked how the repository's effect on the High Plains aquifer in Texas would change if farmers move to dry-land crops or significant reductions in water use.

Response

Trends toward dry-farming could make the relative impact of withdrawing water for repository-related uses much more severe. The final EA does consider this trend and the potential for relatively more severe effects on water rights as well as consequent effects on future development near the Deaf Smith site.

Issue

One commenter recommended that the DOE use the disqualifying condition for the socioeconomics guideline to disqualify the Deaf Smith site; this disqualifying condition pertains to adverse impacts on water quality or quantity. The same commenter stated that, even if the DOE proceeded to rank the five nominated sites, it should not rank the Deaf Smith site as a preferred site.

Response

Because the DOE can mitigate or compensate for the adverse impacts on water quality and quantity, the Deaf Smith site is not disqualified on the basis of the socioeconomics guideline. The need to acquire water rights that could affect future development in the area was considered in the comparative evaluation of the five nominated sites against the socioeconomics guideline. The selection of preferred sites, however, depends on a comparative evaluation of the nominated sites against all of the siting guidelines.

C.3.4.2.2.3 Transportation

Issue

Several commenters stated that certain factors were not adequately accounted for in the relative ranking of the sites. Examples of such factors are cost, the emergency-response capabilities of affected States, and weather hazards. One commenter alleged that only distance was considered.

Response

All of the factors in the transportation guideline were considered during the comparative evaluation of sites. These factors include, but are not limited to, those mentioned by the commenters: cost, emergency-response capabilities, weather hazards, and distance. The evaluations of the favorable and potentially adverse conditions for each site in Section 6.2.1.8 of the final EAs discuss the information used to reach the findings on the guideline conditions.

Issue

Commenters noted that the draft EAs do not state what weight was given to the various conditions of the transportation guideline. It was also suggested that certain favorable conditions, such as cost and risk, should be weighted more heavily than others. These commenters contended that the DOE had stated

publicly that national cost and risk would be weighted at half the total transportation ranking, but no similar statement is contained in published documents.

Response

The DOE agrees that national cost and risk should be weighted more heavily than the other factors in the transportation guideline. In the draft EA, the DOE considered national cost and risk (favorable condition 5 of the transportation guideline) to be weighted at 50 percent of the total importance of that guideline. A detailed explanation of the process used to evaluate the transportation conditions of the nominated sites for recommendation is contained multiattribute utility in the analysis of the nominated sites.

Issue

Several commenters expressed disagreement with the finding made by the DOE on the transportation-guideline conditions. They felt that, on the basis of the data presented, several of the findings for the favorable and potentially adverse conditions were unjustified. One commenter questioned that only the Richton site received a finding of "present" on favorable condition 5 (national cost and risk), and not Deaf Smith and Davis Canyon as well. Also noted were inconsistentcies in the data for the various sites.

Response

Several of the findings for the favorable and potentially adverse conditions of the transportation guideline have been revised in the final EAs. These revisions are based on responses to public comments, additional data, and additional analyses. To ensure consistency among the sites for the guideline-condition findings, a common set of criteria was applied. The DOE believes that all the findings reported under the transportation guideline in the final EAs are valid at this stage of the site-selection process. The rationale for each finding for each condition is presented in Section 6.2.1.8 of the final EAs.

Some of the favorable and potentially adverse conditions require a comparison among sites, and hence only one site can receive a finding of "present." These conditions are so noted in Section 6.2.1.8 of the final EAs. For example, favorable condition 5 contains the phrase "which are significantly lower than those for comparable siting options"; for this condition, only one site--the site with the lowest costs and risks--can receive the finding of "present." It should be noted, however, that in the comparative evaluation of sites all available data for each site for each guideline condition were considered.

C.3.4.2.3 Ease and cost of siting, construction, and closure

Issue

A commenter questioned why the DOE did not rank the sites with respect to the system guideline on the ease and cost of siting, construction, operation,

and closure. The commenter argued that a "ballpark" figure would be useful and implied that the DOE avoided this because the result would be unfavorable to the Hanford site.

Response

As explained in this appendix and in the EAs, only preliminary assessments of performance against the system guidelines are possible at present (i.e., before site characterization), and the DOE feels that the results of such preliminary assessments would be inappropriate as bases for site-selection decisions.

Issue

Another commenter pointed out that the way that the EAs report costs makes ranking the sites on this basis difficult. The use of reference cases does not allow the site-specific construction and lifetime costs to be considered. The commenter was critical of the DOE's estimates of uncertainty, pointing out that cost overruns on some nuclear projects have exceeded 100 percent.

Response

The cost estimates in the EAs were based on the estimates of the total-system lifecycle costs that the DOE prepares annually each year for submittal to Congress as part of the fee-adequacy report. The repository is not comparable to nuclear power plants, some of which have indeed experienced large cost overruns. Furthermore, the DOE is financially accountable to Congress, and the expenditures of the repository program are audited by the General Accounting Office.

C.3.4.2.3.1 Surface characteristics

Issue

Some commenters felt that the interpretation of the potentially adverse condition of the guideline on surface characteristics was inconsistent in the various EAs and that the sites that are subject to potential flooding were not evaluated equitably: the Hanford, Yucca Mountain, and Richton sites were given credit for flood protection through engineering measures, whereas the Davis Canyon, Lavender, Cypress Creek, and Vacherie sites were not given credit for flood protection.

Response

The DOE has decided that flood protection through engineering measures cannot be considered in evaluations against the potentially adverse condition of this guideline because by allowing credit for such flood protection the DOE would eliminate a discriminating condition for this guideline. As a result, the Hanford, Yucca Mountain, and Richton sites were given a finding of "present" for this condition.

Issue

Some commenters pointed out that the Davis Canyon site was penalized in two guidelines (transportation and surface characteristics) for the rugged terrain that would be traversed by the access road and railroad. This penalty could be avoided by locating the surface facilities eastward in the flats away from the cliffs.

Response

Each site must be evaluated against every guideline regardless of any apparent duplication of penalties for site conditions. The Davis Canyon site contains rugged terrain; therefore, the favorable condition is not present. If the site is characterized, the plans for the layout of the surface facilities could be changed.

C.3.4.2.3.2 Rock characteristics

Issue

One commenter asked why the Hanford site was ranked lower on preclosure rock characteristics than the Deaf Smith and the Yucca Mountain sites.

Response

Since more exploration activity has occurred at the Hanford site than at the other sites, more data have been collected. Some of these data indicate that there are more conditions posing potential problems at this site than at the other sites. The conditions underground will not be adequately sampled until exploratory shafts have been sunk and underground excavations have been made at all sites.

Issue

One commenter asked whether a change in the buffer zone at Richton could change the degree of flexibility available at Richton and even require the use of a two-level design.

Response

Chapter 6 of the EA for the Richton Dome site has been revised to identify the assumptions and measurements made in claiming sufficient flexibility in preclosure rock characteristics. Several changes (not just the size of the buffer zone) could require the use of a two-level design at the Richton site.

Issue

One commenter questioned the Hanford site's being given a finding of "not present" for potentially adverse conditions 2 and 3.

Response

Chapter 6 of the EA for the Hanford site has been revised to explain the basis for these findings.

Issue

One commenter took issue with the small difference in rating between the Deaf Smith and the Davis Canyon sites for both preclosure flexibility and for ease of operation.

Response

Flexibility is only one of eight conditions considered in evaluating the sites on preclosure rock characteristics.

Issue

One commenter felt that the potential for high-pressure water inflow in regions of fractured rock will require "innovative engineering" and incur high costs at the Hanford site.

Response

The measures that would be required to mitigate these conditions are routinely used in mining. They are explained in Section 6.3.3.2.6 of the final EA for Hanford.

C.3.4.2.3.3 Hydrology

Issue

Several commenters questioned the appropriateness of the relative ranking of the five sites on the preclosure guideline on hydrology. One comment noted that the importance of the complexity of ground-water-control measures should not be equated with the potential for flooding or the availability of water. Another stated that the potentially adverse condition of ground-water conditions requiring complex engineering measures that are beyond reasonably available technology is present at Hanford, and therefore this site should be disqualified or heavily penalized in the relative ranking. A few comments stated that the relative rankings of Deaf Smith and Hanford were too favorable and should not be equal to those of Davis Canyon and Richton.

Response

As explained in Chapter 7 of the final EAs, the complexity of ground-water-control measures is indeed considered more important than the potential for flooding and the availability of water. The DOE does not agree, however, that the potentially adverse condition for the hydrology guideline is present at the Hanford site. The design features and construction techniques that would be used to minimize ground-water inflow

into shafts and drifts at the Hanford site are based on mining experience under saturated conditions. The range of ground-water inflow conditions that are expected at Hanford can be accommodated with conventional design and construction methods; requirements for engineering measures beyond reasonably available technology are not expected. However, the relative complexity of ground-water-control measures at Hanford, as compared with the other sites, was taken into account.

Issue

One commenter noted that the Davis Canyon site was not correctly ranked on the hydrology guideline. Davis Canyon has enough flat land above the floodplain for construction and, unlike the other salt sites, has no large aquifers that require freezing for shaft sinking.

Response

The DOE agrees that, unlike the other two salt sites, the Davis Canyon site has no aquifers that require freezing for shaft sinking because only minor aquifers are present above the host rock. This favorable attribute was considered in the comparative evaluation of sites against the hydrology guideline. However, the location of the surface facilities of the repository is dictated by the need to mitigate visual aesthetic impacts to an acceptable level. Therefore, the DOE does not have the option of to locating a repository at the Davis Canyon site on flat land above the floodplain.

Issue

One commenter felt that the finding for favorable condition 3, the availability of water required for repository construction, operation, and closure, should be changed to "not present" for the Davis Canyon site. The estimated water requirements for the project do not include the water needed for mitigation measures, such as site revegetation and water sprays to suppress dust. Moreover, purchasing existing water rights would foreclose uses dependent on existing water rights and would adversely affect new development in the area.

Response

The DOE has revised the table on repository characteristics in Chapter 5 of the final EA for the Davis Canyon site to clarify the water-resource requirements for the repository. The DOE acknowledges that withdrawal from the Colorado River, if this resource is used, would contribute to the increasing demand on the region's sparse water resources.

Issue

One commenter asked what preliminary data indicate that at the Deaf Smith site adequate quantities of water can be obtained from the Dockum Group.

Response

Well yields in the vicinity of the Deaf Smith site are in the range of 400 to 900 gallons per minute.

Issue

One comment noted that Yucca Mountain is not as favorable as the text suggests and that the difference between Yucca Mountain and the other sites is not substantial.

Response

With respect to the Yucca Mountain site, the ability to locate the repository in the unsaturated zone, where minimal measures for ground-water control will be required, minimal potential for flooding, and an ample supply of water at the site for repository siting, construction, operation, and closure are favorable for this site. It is not clear from the comment what features of the Yucca Mountain site were considered adverse by the commenter with respect to the favorable ranking on the hydrology guideline.

C.3.4.2.3.4 Tectonics

Issue

A number of commenters expressed concern that the DOE has not adequately considered all information in ranking sites on the preclosure guideline on tectonics.

Response

The comparative evaluations of sites in the draft EAs were based on the information available for the qualifying, favorable, and potentially adverse conditions as they influence the potential for ground motion and fault displacement. The final EAs more explicitly discuss the expected effects of earthquake ground motion and fault displacement for each site; the discussion is based on the evaluations.

Issue

Some parties questioned the evaluation of the Yucca Mountain site, particularly with respect to the potential effects of nearby faults and in-situ stress, the derivation of ground-motion estimates, and the potential use of NRC criteria for nuclear reactors (10 CFR Part 100, Appendix A).

Response

As discussed in Chapter 7 of the final EA, there are uncertainties about potential ground motion and the time of the last movement on faults near the site. However, these uncertainties are not so large as to preclude the findings that must be made at this stage of the site-selection process. The data needed for higher-level findings will be collected during site characterization.

The NRC has said that (see page 103 of the NRC comments on the draft EA for Yucca Mountain) "at the present time, it is premature to state that the design requirements for nuclear power plants are the same as those required

for a waste repository. The DOE should consider stating at this time that the design requirements of structures important to safety will comply with 10 CFR 60 and appropriate EPA regulations." The DOE agrees and has never intended or stated that reactor criteria would or should be used. The DOE is developing an approach to determining the appropriate earthquake inputs for repository design. An annotated outline of this approach was sent to the NRC for comment on June 20, 1985.

No quantitative statements about earthquake probability and magnitude can be made at present on the basis of stress data. In deriving estimates of potential ground motion for Yucca Mountain, the DOE did not ignore the nearby faults, but did not explicitly consider each fault because the magnitude and the probability of earthquakes on these are not known. The DOE's judgments are based on the data base for strong ground motion and on the type and levels of ground motion that other facilities have been designed for.

C.3.4.3 Decision method

The method used to identify the preferred sites for recommendation, described in Section 7.4 and Appendix B of the draft EAs, elicited many comments. As already mentioned in the introduction to Section C.3.4, the DOE, in response to these comments, developed a more formal decision-aiding methodology that was reviewed by the National Academy of Sciences. A detailed description of this methodology is presented in the multiattribute utility analysis of the nominated sites, which also shows how the methodology was applied in terms of the siting guidelines. Thus, comments on the methodology applied in the draft EAs, the process used for identifying preferred sites, and the choice of preferred sites are not addressed here; only summaries of the various issues that were raised in these comments are presented in order to show the concerns of the commenters.

Among the comments was an objection to the statement in Section 7.1.2 of the draft EAs that "disqualifying conditions did not enter directly into the comparison of sites." This happened because the disqualifying conditions could not be used to discriminate between sites. Each of the potentially acceptable sites was evaluated against the disqualifying conditions (see Section 2.3 of the EAs), and no disqualifying conditions were found at any site. Had a disqualifying condition been found at any site, that site would have been removed from further consideration and would not have included in the evaluations of Chapter 7.

Many commenters said that the importance of individual guidelines in a group of guidelines should not be equal, and some suggested specific guidelines that should be considered more important than others in the same group. Some suggested that the importance of specific guidance should vary from site to site. These suggestions contradict the provisions of the implementation guidelines, which specify the relative importance to be assigned to each group of guidelines and state that, within a group, all guidelines are of equal importance.

The issues that were raised in the comments on the decision method are summarized below.

- The evaluation process described in Chapter 7 of the draft EAs is arbitrary and confusing.
- There is little correlation between the findings reported in Chapter 6 and the rankings in Chapter 7.
- The methodology is unsatisfactory, inadequate, undocumented, and biased. The averaging and the pairwise comparison methods are not satisfactory because the spread in rankings is artificially determined; the utility estimation method can be valid for comparisons against the preclosure guidelines but is not adequate for assessing postclosure performance.
- Aggregation procedures are valid only if the guidelines are complete and not redundant, but some guidelines are redundant (i.e., population is considered in the guidelines on population density and distribution, meteorology, environmental quality, socioeconomics, and transportation).
- The aggregation of rankings compounds the subjectivity of the application of the guidelines.
- Alternative decision methodologies might result in the identification of different sites as preferred for characterization.
- The methodology of comparison should be highlighted as a stand-alone issue.
- A sensitivity analysis should be performed and documented.
- The DOE should find a site adequate under the postclosure guidelines before considering its rank under preclosure guidelines.
- The aggregate ranking does not consider interactions among major factors.
- The weighting used for the various conditions of each guideline is not explained; hence the basis for the score on each guideline is not clear and cannot be replicated. Furthermore, if all conditions are of equal weight, then any one condition is not very important.
- The weighting of the postclosure guidelines with respect to the preclosure guidelines is too low and not justified.
- Because three postclosure guidelines cannot be used to discriminate among sites (climatic changes, erosion, and site ownership and control), the inclusion of these guidelines in the aggregate rankings reduces the weight assigned to the other postclosure guidelines.

- The weighting of 35:33:32 for the three groups of preclosure guidelines assigns similar weights to the three groups, contradicting the requirement of the implementation guidelines that the three groups be assigned a specified order of importance.

- Because the weighting was adopted without rulemaking proceedings, its use violates the public participation and rulemaking requirements of the Act, the DOE Organization Act, and the Administrative Procedures Act.

- Because the application of the methodology is contingent on the professional qualification and experience of the members of the evaluation team, the DOE should provide such information about every team member.

The DOE carefully considered these issues in the development and application of the decision-aiding methodology.

C.3.4.4 Miscellaneous comments on the nomination and recommendation process

The DOE received many comments that addressed various aspects of the process of site nomination and recommendation and the results reported in Chapter 7 of the draft EAs. Many of these comments approved of the sites identified as preferred for recommendation; one party submitted an independent evaluation that supported the choice of sites reported in Section 7.4. Many other commenters, however, disagreed with the sites identified as preferred. As already explained, the DOE developed a formal decision-aiding methodology for the ranking of sites. The results will be presented in the multiattribute utility analysis of the nominated sites and the recommendation of candidate sites, which are being issued separately.

Summarized and answered below are various other issues raised in comments on the nomination and recommendation process.

Issue

Some commenters said that four of the potentially acceptable sites should not have been excluded from the comparative evaluation in Chapter 7 because the exclusion of the four sites might have altered the outcome of the site rankings. Some parties also asked what happens to the four potentially acceptable sites that were not evaluated in Chapter 7.

Response

Section 112(b)(1)(E) of the Act requires each EA to include a reasonable comparative evaluation of the nominated site against the other sites and locations that have been considered. The siting guidelines (Section 960.3-2-2-3) require that the nominated site be evaluated against all other such sites. In this context "such sites" has been taken to mean other nominated sites. Therefore the comparative evaluation of sites against the guidelines considers the five sites proposed for nomination.

It is not true that the four remaining site have been excluded from a comparative evaluation against other potentially acceptable sites. As specified by the siting guidelines (Section 960.3-2-2-1), the selection of the preferred site in each geohydrologic setting that contains multiple sites was based on a comparative evaluation of the sites in that basin (see Section 2.4 of the EAs for the Davis Canyon, Deaf Smith, and Richton Dome sites).

The four sites not evaluated in Chapter 7 are not being recommended for characterization. They could, however, be considered again in the first-repository program if none of the characterized sites is accepted for repository development. They could also be considered in the second-repository program.

Issue

Commenters stated that the DOE should use the guidelines that do not require site characterization in selecting the preferred sites for characterization because the data are more available and more reliable. If this approach had been used, the rankings of the salt sites would have been different.

Response

The Act, in Section 112(b)(E)(i), requires that the sites be evaluated against all of the siting guidelines. Furthermore, many of the guidelines that require data from site characterization for the demonstration of compliance pertain to postclosure conditions that would affect the long-term safety of the repository.

Issue

A commenter applauded the DOE's use of conservative assumptions for preliminary performance assessments of the repository system and for present evaluations of potential environmental impacts, but suggested that the DOE should emphasize that actual repository performance at all sites is likely to be better than predicted because of these conservative assumptions. Commenters also noted that there are inconsistencies in the application of conservatism throughout the EAs.

Response

In its evaluations, the DOE used, where necessary, assumptions that approximate the characteristics or conditions considered to exist or expected to exist in the future at a site. These assumptions are realistic but conservative enough to underestimate the potential for a site to meet the qualifying condition of a guideline. The results of the analyses indicate that all of the sites are likely to meet the performance requirements. Given the limitations and uncertainty in the available information, statements that actual performance is likely to be better than predicted would be inappropriate. The DOE has attempted in the final EAs to ensure reasonable comparability among the sites in the degree of conservatism applied to similar analyses, such as ground-water-travel times.

Issue

Several commenters felt that nonconservative positions were taken when evaluating the sites against the guidelines in spite of a statement in Section 7.1.2 to the contrary. One commenter stated that a conservative assumption stated in Chapter 7, involving the vertical ground-water-travel time, was not implemented for the Davis Canyon site.

Response

The DOE feels that it has used conservative assumptions where insufficient data were available. It should be borne in mind, however, that at this stage in the site-selection process (i.e., nomination for site characterization) the qualifying and disqualifying conditions in the guidelines need only meet the tests that evidence does not support a finding that the site is disqualified or does not support a finding that the site is not likely to meet the qualifying condition.

Regarding the specific comment, the conservative assumption stated in Chapter 7 involves a time of vertical travel through the interbeds in the evaporite sequence. Chapter 6 does not indicate that anything other than zero was used in estimating travel time through the interbeds when the total travel time through the evaporite sequence was estimated.

Issue

Commenters were concerned because the DOE did not rank the sites on the system guidelines. Some suggested that the DOE delay ranking the sites until enough data for performance assessments are available and repository technology is more developed.

Response

The DOE described the basis for site evaluations in Section 960.3-1-5 of the guidelines. This section indicates that comparisons between and among sites shall be based on the system guidelines to the extent practicable, and, if the evidence is not adequate to substantiate such comparisons on the basis of the system guidelines, then the comparisons shall be based on the groups of tehnical guidelines. As discussed in the EAs, the results of preliminary evaluations based on the system guidelines were presented in the EAs, but the objective was to demonstrate the status of capability at this point in the program, not to provide the basis for recommending sites for characterization.

The information needed to develop system performance assessments with sufficient confidence to use them for applying the system guidelines can be gathered only during site characterization. This fact, together with the schedule mandated by Congress for repository development, makes it imperative that the sites to be characterized be chosen expeditiously.

Consistent with the Act, the applicable NRC regulations in 10 CFR Part 60, and the DOE's siting guidelines, the DOE believes that it is appropriate and prudent to proceed with site characterization in order to obtain the information needed for selecting one site for development as a repository, advancing the designs of the repository and the waste package, and completing a license application to the NRC.

Issue

Some commenters criticized the data bases for the analyses presented in the EAs.

Response

The DOE has met the intent of the Act to use available information to recommend sites for characterization (see Section 112(b)(3)) and has been consistent with the guidelines in making the findings required for nomination and recommendation (10 CFR Part 960, Appendix III).

Issue

Several commenters expressed concern over differences in the data bases for different sites.

Response

The information available for the various sites is admittedly nonuniform in accuracy and extent. However, it meets the requirements of the Act and of the siting guidelines for this stage of the site-selection process. The detailed data needed for later decisions will be collected during site characterization.

Issue

One commenter stated that the DOE does not have sufficient data to compare the Deaf Smith site with the other four nominated sites. The commenter cited a lack of site-specific data in many technical areas.

Response

The DOE recognizes that the data used in comparing the sites are not uniform. However, the DOE feels the data are sufficient to choose the sites for nomination and recommendation for site characterization; meet the requirements of the Act and of the siting guidelines.

Issue

One commenter remarked that site selection for characterization is pointed toward ease of public acceptance rather than the technical quality of the site. The commenter pointed to the proximity of DOE facilities to two of the sites as evidence that prior public acceptance of DOE installations was a major consideration.

Response

The process to be followed in recommending sites for characterization is specified in the Act. Included in that process is evaluation against the siting guidelines. In this evaluation, each site must be shown likely to meet all of the technical guidelines. Public acceptance is not directly considered. (It is considered indirectly as part of evaluations against the socioeconomics guideline). The proximity of DOE installations to two of the

sites is, at least in part, a consequence of a Congressional mandate to search for sites on Federal lands dedicated to nuclear activities. That search led to the Hanford and the Yucca Mountain sites.

Issue

One commenter said that, whereas the Act requires a comparative evaluation in an EA for each nominated site, Chapter 7 compares only five sites. Therefore, only those five can be among the sites finally nominated. The commenter said that to nominate any other site would require new draft EAs or EA supplements for that site and new comparative evaluations.

Response

While Chapter 7 only compares five sites, the comparisons of sites within each geohydrologic setting, when taken together with Chapter 7, provide a comparison of all nine sites. The procedure of comparing sites in each geohydrologic setting to identify sites for nomination and then performing a compartive evaluation of the nominated sites follows the requirements of the siting guidelines, Section 960.3. New draft EAs will not be necessary unless there is a change in the preferred sites within a geohydrologic setting.

Issue

One commenter noted that no worst-case analyses were done for the sites, but courts have ruled that such analyses are required for demonstrating compliance with the National Environmental Policy Act.

Response

The EAs for geologic repositories are prepared under the statutory requirements of the Nuclear Waste Policy Act rather than the National Environmental Policy Act.

Issue

Several commenters suggested considerations that should be given the greatest importance in site evaluations. One said that the potential for harm to the Canyonlands National Park outweighs all other considerations. Another felt that safety is the most important criterion, followed by cost. Another commenter listed geologic stability, absence of ground-water intrusion, simple and regular transportation routes, and the ability to maintain repository integrity in spite of social upheaval as most important.

Response

The siting guidelines require that primary consideration be given to the postclosure guidelines. These include guidelines devoted to safety (postclosure), geologic stability, ground water (geohydrology), and long-term repository integrity. Furthermore, the preclosure guidelines are divided into three groups: radiological safety; environment, socioeconomics, and transportation; and EAs and cost of siting construction, operation, and closure. Those groups are specified to be in decreasing order of importance

as listed above. It can be seen that the siting guidelines provide considerable constraint in the weighing, or at least in ranking the importance of, different factors used in evaluating and comparing sites.

Issue

One commenter felt that Chapter 7 did not explain how the evaluation of the favorable and potentially adverse conditions in the guidelines were related to the rankings given the sites.

Response

The approach used in the comparative evaluation of sites in Chapter 7 of the draft EAs was explained in Section 7.1.2, which discussed, among other things, the relationship between the favorable and potentially adverse conditions and the site rankings. It explained that the favorable and potentially adverse conditions, considered on balance and in relation to the qualifying condition, constitute the basis for ranking the sites.

Issue

One commenter suggested that all of the sites be characterized.

Response

Because of its high cost, the characterization of all nine sites would be an imprudent and unnecessary use of the funds collected from utility ratepayers.

Issue

A number of commenters stated that the waste should be disposed of at its point of origin and that the DOE should weigh regional considerations in siting the repository. Approximately 80 percent of the waste to be stored in a West Coast repository is generated east of the Mississippi, yet no States in the east are being considered for a repository.

Response

Among the nine sites found to be potentially acceptable for the first repository, and the five sites nominated as suitable for characterization is Richton Dome, which is in the State of Mississippi. In addition, the DOE is investigating potential repository sites in the north-central, northeastern, and southeastern regions. The study is investigating crystalline rocks of the eastern Appalachian region, but it was not sufficiently advanced to allow a crystalline-rock site to be included in the site-selection process for the first repository. The crystalline-rock program will be part of the effort to select a site for the second repository.

The Act requires consideration of regionality in selecting the second repository. Therefore, if the first repository is located in the west, the second repository may be located in a region closer to eastern nuclear power plants. However, it is important to remember that all sectors of the society benefit from nuclear power, either directly or indirectly, through the

distribution of electrical power and decreases in the consumption of foreign and domestic oil. Therefore, the disposal of radioactive waste is a national problem. Although a State may not have a nuclear power plant within its boundaries, it is very likely that the State is, or will be in the future, consuming electricity produced by nuclear power plants outside the State. The paramount consideration in siting the repository is public health and safety, which cannot be sacrificed solely to ensure a regional distribution of repositories. If all host rocks and sites in the eastern United States were found unsuitable, then no repositories would be sited there.

Issue

Commenters were critical of the ability of DOE officials to make unbiased decisions. Some stated that political issues interfered with the site selection process. Specific concerns were stated as follows:

- Secretary Hodel's statements in Texas during the Congressional election race of Phillip Graham may have influenced site-selection decisions.

- The EAs were released one month after the election, rather than before, when they would have been a campaign issue. The commenter alleged that the schedule is being driven by politics.

- Political pressure may be brought to bear on the DOE to change the ranking of nominated sites. Several commenters felt that the residents of small towns and sparsely populated regions near the nominated sites do not have enough political clout to affect the choice of sites.

- Political and socioeconomic considerations should not outweigh safety and environmental considerations. Many commenters stated that the choice of Hanford was influenced by economic conditions in the region, and one commenter suggested that the government may be considering paying off the WPPSS bond in exchange for the State of Washington's agreement to locate the repository at Hanford. Other commenters stated that both the Yucca Mountain and the Hanford sites were recommended for characterization because, as federally owned sites, these would be less public opposition to these sites.

Response

Recognizing that the selection of a geologic repository should not be subject to political pressure, Congress specifically directed the DOE to issue guidelines to be used in selecting sites for a repository and specified the process to be used in site selections. The nomination and recommendation of sites for characterization were based on evaluation of the sites against the guidelines.

Former Secretary of Energy Donald Hodel did campaign in Texas on behalf of Representative Phillip Graham during the Congressional election of 1984. During that campaign, Secretary Hodel expressed his personal view that Mr. Graham would effectively represent Texans in the repository-development process. However, Secretary Hodel's participation in the 1984 campaign did

not influence the evaluation of the potentially acceptable sites in the EAs. The identification of the Deaf Smith County as a preferred site for characterization was a technical decision that was not influenced by political considerations in view of the widespread opposition to a repository in Texas.

The collection and analysis of data for nine draft EAs was a complex and time-consuming process. The schedule was driven by the requirement of the Act for the DOE to prepare environmental assessments that include specific evaluations and analyses; the timing of the election had no influence on the schedule.

The DOE released the draft EAs for public comment and held briefings and hearings in the affected States. The DOE carefully considered the issues raised by individuals, public interest groups, States and Indian Tribes, and other Federal agencies submitted in writing or as testimony in the hearings. The DOE is confident that all citizens had ample opportunity to comment on the EAs. Any change in the rankings of the nominated sites would be due to additional data leading to changes in guidelines findings, and not to political pressure.

The guidelines are structured to ensure that the protection of health and safety is heavily weighted in selecting sites for characterization. In no way do the economic conditions in an area override considerations of health and safety.

The Hanford site's close proximity to the WPPSS project has no influence on its nomination or recommendation for site characterization. The WPPSS program is an entirely separate program, and there has been no "tradeoff" agreement with the State of Washington.

While the DOE did initially look as Yucca Mountain and Hanford sites as part of its program to screen Federally owned sites, this is not the basis for nominating or recommending these sites for characterization. Each of these sites has been evaluated against the guidelines and has been found suitable for site characterization.

Issue

Some commenters observed that the draft EAs do not prove that the DOE has chosen the best sites for nomination and characterization. One commenter requested that the DOE repeat the ranking process for the nine potentially acceptable sites after site characterization completed, to make sure that the three sites characterized are the best sites.

Response

It is not necessary to choose the best sites for nomination and characterization; it is necessary to choose sites that are likely to meet all applicable regulatory requirements for the protection of public health and safety and would allow the geologic repository program to proceed in an expeditious and cost-effective manner.

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C.4 DATA BASE, PROPOSED ACTIVITIES, REPOSITORY DESIGN

This section addresses comments on the accuracy or adequacy of baseline information about the repository system, site characterization activities, and the site itself, which is used to provide the foundation for the evaluations and assessments concerning site suitability and the impacts of developing the site. This section corresponds to comments on Chapter 3 and on Sections 4.1, 4.3, and 5.1 of the EA.

C.4.1 BASELINE CONDITIONS AT THE SITE

This section considers comments which raised issues of a general nature and include adequacy of data and the use of generic data.

Issue

Some commenters noted the lack of an adequate information base from which to perform analysis and evaluate impacts. It was suggested that a general explanation of frequently used non-site-specific data should be included in appropriate chapters. Some commenters noted the lack of a base of substantial nondestructive testing in the Davis Canyon area.

Response

Much information presented in the EA pertains to the area or region, rather than to the specific site, because of the limited amount of site-specific data available. The DOE has obtained additional data from State and Federal agencies and has collected more data from reference documents to strengthen the data base in Chapter 3 of the EA. The DOE concludes that the data presented are representative of the site area and can thus meet the requirements of 10 CFR 960.3-1-4-2.

Additional site and rail corridor data were obtained since publication of the draft EA. These include night-sky background conditions in Canyonlands National Park, in-park noise measurements, archaeological data (sponsored by the National Park Service), and reconnaissance of new rail corridor alignments for threatened and endangered species and their habitats. Additionally, the U.S. Fish and Wildlife Service made a visit to the site to confirm the absence of onsite wetlands. These new data have been reported in revised EA Section 3.4.

The DOE has revised Chapter 3 to address the suggestion that explanations be provided to indicate when non-site-specific data are used. The chapter now indicates what data are from site-specific surveys and what data are not.

A more comprehensive program of nondestructive testing is planned for recommended sites.

C.4.1.1 Geologic Conditions

This category addresses comments, questions, and concerns on the accuracy or adequacy of the baseline geologic conditions at the Davis Canyon site. Because of the large number of comments received in this category and the variety of subjects that this category covers, it has been subdivided into several smaller subcategories: regional geology, geomorphology, stratigraphy, paleontology, structure and tectonics, rock characteristics, geochemistry, mineral resources, and soils. These subcategories were selected to be closely aligned to specific sections in Chapter 3 of the EA.

Issues raised by the commenters include the following:

- Lack of an adequate information base from which to perform analysis and evaluate impacts
- Inadequacy of the present data
- Further description of the investigations
- Illegible maps
- Absence of site-specific data
- Data on the karst surface of the Leadville Formation
- Discussion of erosion rates
- Discussion of the influence of joints on erosion rates and drainage development
- Further details on the structure and stratigraphy of Paradox salt
- The need for specific data on faults
- Discussion of dissolution
- The relationship of faulting to seismicity
- Clarification of tectonic stability
- Geophysical data
- Information on joints and fractures
- Information on the Monument Upwarp

- Horizontal stresses and salt flow
- Effects of discontinuities, heterogeneities, and impurities on rock mass behavior
- Variation in the measurements of rock-soil properties
- In-situ stress
- Coupled-effects performance scenarios
- Potential effects of geochemical conditions and processes on the high-level waste disposal system
- Radionuclide mobility and migration
- Potential impacts of large amounts of carnallite
- Geochemical evidence of depositional dissolution.

Issue

Several commenters believe that the present data base is inadequate, not sufficiently site specific, and too generalized to conduct evaluations or begin site characterization.

Response

The DOE has reviewed the data base in Chapter 3 and has determined that it is sufficient to meet the requirements for site nomination as specified in 10 CFR 960.3-1-4-2.

Issue

One commenter requested further descriptions of the investigations which have been conducted to date to show their relevance to understanding of the site.

Response

Chapter 3 includes a description of the site and the data used to develop an understanding of the site. This data base is consistent with the requirements of 10 CFR 960.3-1-4-2 regarding site nomination.

Issue

One commenter thought that some maps in the draft EA were illegible or inappropriate.

Response

The printing and distribution process for the EAs limits the size of maps which can be used. All maps are reductions from detailed large-scale maps, and the legibility of essential features has been emphasized. Full-size, detailed topographic maps are too large to reproduce in the EAs without some loss of detail. All geologic and topographic maps that were used in preparation of the EA but which are too large or too detailed to be included are referenced in the EA and are available to the public. Figures used are deemed appropriate by the DOE.

C.4.1.1.1 Regional Geology

Issue

Two commenters noted the absence of site-specific data, both surface and subsurface, and were concerned about local variations or features that differed from general trends.

Response

The area in and around the site has been geologically mapped four times at large scales (Baker, 1933; Lewis and Campbell, 1965; Huntoon et al., 1982; WCC, 1982, ONWI-290, Vol. II); the DOE believes that it is unlikely that significant tectonic features remain undiscovered at the surface. An extensive helicopter reconnaissance and aerial photograph interpretation of the area were also conducted. Surface geology is well exposed and does not indicate major complexities. This is corroborated by geophysical surveys.

Issue

One commenter felt that more data should be collected on the karst surface of the Leadville Formation.

Response

The DOE has revised the EA text (Section 3.2.5.6) to include a description of the karst phenomena observed in the core from the GD-1 borehole. About 18 meters (60 feet) of the uppermost Leadville Formation was found to be penetrated by karst openings filled with red clayey siltstone and limestone breccia, equivalent to the Coalbank Hill member of the Molas Formation. The Molas Formation is an aquitard that helps seal off the Leadville Formation from the overlying Pinkerton Trail and Paradox Formations.

C.4.1.1.2 Geomorphology

Issue

One commenter felt the EA should include more discussion of erosion rates, including the rationale for rates used and the range of rates in the region, and discussion of mass wasting and slope stability.

Response

The DOE has expanded the text of Section 3.2.2.2 to include a discussion of the data base and rationale used for derivation of erosion rates given in the EA. These data also provide the bases for cliff retreat rates assumed for the Davis Canyon area, and for the potential for mass wasting (rock fall or rock slides) in the operations area, based on aerial photograph analyses.

Issue

Several commenters stated that the influence of joints on erosion rates and drainage development should be discussed.

Response

The DOE has added a discussion of the influence of jointing on drainage development to Section 3.2.2.3. Comparisons of drainage orientation with joint orientations have also been discussed. The DOE has also examined the relation of jointing to cliff failure and possible hazard to surface facilities.

C.4.1.1.3 Stratigraphy

Issue

Many commenters asked for further details on the structure and stratigraphy of Paradox salt and on specific salt features.

Response

The DOE has expanded Section 3.2.3.3 (Thickness, Lateral Extent, and Characteristics of the Host Rock). A discussion of the causes of thickness variations between locations in close proximity to one another has been incorporated. The discussion also covers the interpolation technique that is used to derive thickness values between well locations. The text explains that areas with greater numbers of boreholes coincide with areas where thickness variations are more extreme because, generally, Paradox Basin exploration has been targeted at

areas suspected to be less uniform. Additionally, inconsistencies in the salt thickness in the site vicinity quoted in the draft EA have been rectified.

The DOE has incorporated additional detail into Section 3.2.3.3 concerning depositional sequence of potash salts and the characteristics of potash zones. Discrepancies in the stated thicknesses and percentages of potash zones in the GD-1 core have been corrected or explained. The DOE has added to the discussion of whether or not potash is present in the repository area (Section 3.2.8.2.2).

The DOE has expanded Section 3.2.3.1 to better describe the history of salt anticline development. A discussion of theories which explain development of salt anticlines has been added to Section 3.2.5.5. The fault in the Gibson Dome salt section has been addressed in Section 3.2.3.3 of the final EA.

The DOE has expanded Section 3.2.5 (Structure and Tectonics) to include a discussion of the relationship of geophysical anomalies to structural features.

Issue

Several commenters noted that stratigraphy has been oversimplified especially with regard to hydrologic properties.

Response

Section 3.2.3.2 has been modified to explain that "stratigraphy" refers to lithology and formations, and does not include physical and hydrologic properties.

Issue

One commenter noted inconsistencies in EA references with regard to structural features.

Response

The DOE has examined the references and finds that the apparent inconsistencies between interpretations appear in early drafts of the cited reports. The inconsistencies no longer exist between the final letter report (Kitcho et al., 1984), which addresses seismic, gravity, and aeromagnetic studies, and the final report (McCleary and Romie, 1985), which addresses stratigraphy and structure. Citations of references in the final EA have been corrected to reflect the latest publications.

C.4.1.1.4 Paleontology

No comments were received.

C.4.1.1.5 Structure and Tectonics

Issue

Many commenters addressed the need for more specific data on, and discussion of, faults, including (1) mode of formation, (2) history of displacement, (3) interrelationships with other faults, (4) evidence supporting interpretations in the EA and possible alternative interpretations, and (5) possible undetected faults. Commenters noted the need for similar information on other structural features.

Response

The DOE has expanded Sections 3.2.5.1 and 3.2.5.4 of the EA to include additional data on, and interpretations of, faults and folds in the candidate area and vicinity. The DOE recognizes that existing data do not allow for complete and concise characterization of the geometry and history of all faults and folds.

The DOE acknowledges that a number of theories exist to explain the presence and interrelationship of structures, and until they have been studied in greater detail, all plausible interpretations should be considered. Therefore, the DOE has expanded the appropriate sections in the EA to address reasonable explanations of the geologic structures, and to relate the associated features, where defined, to the interpretation of major structures.

The DOE has added detail to Sections 3.2.5.1 and 3.2.5.6 to expand the descriptions of Lockhart Basin, Beef Basin, the Shay-Bridger Jack-Salt Creek graben system, Needles Fault Zone, and Salt Creek Pocket.

Issue

Several commenters asked for further discussion of dissolution, including the relationship of dissolution to faulting and to specific mapped features (Lockhart Basin, Shay Graben, the Needles Fault Zone, Fault R), rates of dissolution, breccia pipes, and possible undetected dissolution features.

Response

The DOE has addressed these issues by expanding discussions in Chapters 3 and 6. The known dissolution at Lockhart Basin, and potential dissolution in the Needles Fault Zone and Shay Graben, are discussed in further detail in EA Sections 6.3.1.6 and 3.2.5.6. Minimum and maximum rate of graben propagation for the Needles Fault Zone is estimated in an analysis described in Sections 3.2.2.2.3 and 6.3.1.5. Rates of dissolution used in EA analyses and the rationale for applying them are presented in Section 6.3.1.6; a new analysis has also been added which uses data from a solution mining operation near Moab. The

potential for dissolution at Fault R is assessed in Section 6.3.1.6. It is concluded that, even with the maximum estimated displacement for Fault R, the condition which could lead to dissolution (juxtaposition of salt next to the Leadville aquifer) would not be present. The possibility of undetected dissolution features is discussed in Section 6.3.1.6. A description of breccia pipes is included in Section 3.2.5.6.

Issue

A few commenters requested that the relationship of faulting to seismicity and to ground-water flow be discussed.

Response

The DOE has added a figure to EA Section 3.2.5.2 that shows the locations of seismic events and structural features. Given the limited accuracy of epicenter locations, correlations of seismic events with specific faults can only be suggested. The relationship of faults to ground-water flow is considered in EA Sections 3.3.2.1, 6.3.1.1, and 6.4.2.3.5. New analyses of fracture flow and alternate travel paths are included in Section 6.4.2.3.5.

Issue

Some commenters stated that a need existed for clarification of tectonic stability in the context of regional uplift and tectonics.

Response

Tectonic stability, in the context of the siting criteria, is discussed in Section 6.3.1.7 of the EA. It is stated as a qualifying condition that the site shall be located such that tectonic processes (i.e., faulting, folding, uplift, igneous activity) are not likely to lead to radionuclide releases over the first 10,000 years after closure. In evaluating this condition, the DOE has assessed past regional tectonic activity under the assumption that long periods (in the geologic time frame) of tectonic inactivity (hundreds of thousands of years) indicate a low possibility of future activity over the geologically short time frame of 10,000 years. As discussed in Section 3.2.5, and summarized in Section 6.3.1.7.2, the DOE considers the region stable within this context.

Issue

Several commenters requested that more geophysical data be included in the EA. It was asked that certain seismic reflection data, which are proprietary, be provided for review.

Response

The DOE has included geophysical data, and shown locations of geophysical surveys in the EA text and figures (Chapter 3). The proprietary seismic data cannot be copied or sent to reviewers. These data were made available to the State of Utah in October, 1984, when the U.S. Nuclear Regulatory Commission (NRC) reviewed them. Schematic interpretations of the seismic lines and reflection time contour maps are included in the reference Kitcho et al. (1984), available in the EA libraries.

Issue

Several commenters desired more information on joints and fractures, including maps and data to be used in analyses of hydrology and dissolution.

Response

The DOE has conducted a study utilizing low-altitude photography, from which a map has been prepared that shows joint locations, trends, density, and stratigraphic extent (Section 3.2.3.3). This map has been incorporated into EA Chapter 3, with a discussion on the potential for joints to act as ground-water conduits, which could result in dissolution or radionuclide migration.

Issue

One commenter noted that Holocene stream incision rates do not provide adequate data on uplift rates over a longer period of time because of extremes in climate. One commenter expressed concern about the thermal uplift effects of the repository.

Response

Stream incision rates added to the discussion in EA Sections 3.2.2.2.1 and 6.3.1.5 provide additional bases for determining rates of uplift. Long-term rates have been derived from radiometrically dated Tertiary or Quaternary materials and from paleomagnetically reversed deposits. Thermal uplift effects which may be mitigated to some degree by subsidence, are described in Section 6.3.1.3.

Issue

One commenter requested further information on the Monument Upwarp.

Response

Additional information on the Monument Upwarp is included regarding its relationship to the Comb Monocline in Section 3.2.5. Its role as a structural control on deposition of the Paradox Formation is elaborated in EA Section 3.2.3.1.

Issue

Two commenters asked for additional information on horizontal stresses and salt flow.

Response

The DOE has addressed salt flow in Section C.5.7 (Tectonics). Horizontal stresses are addressed in Sections C.5.3 and C.4.1.1.6 (Rock Characteristics).

C.4.1.1.6 Rock Characteristics

Issue

Some commenters stated that the effects of discontinuities, heterogeneities, and impurities on rock mass behavior and rock mass characteristics need to be discussed further. These discontinuities, heterogeneities, and impurities include gas and brine pockets, and impurities that significantly affect rock behavior, in particular kerogen and carnallite.

Response

The DOE has considered the issue and modified and clarified the discussion presented in Section 3.2.6 of the draft EA as follows.

The data on rock characteristics contained in Section 3.2.6 of the EA is generally limited to the description of geomechanical and thermal properties of intact rock, together with a few small scale in situ tests in a borehole to measure deformation characteristics. The results of some petrological and geochemical analyses conducted on intact rock core samples are also summarized.

Although the complete range of discontinuities, heterogeneities, and impurities has not been sampled (microfabric or large scale) adequate information is available for the EA. It is insufficient to predict rockmass behavior or characteristics in detail on the basis of data for intact rock samples, or borehole in situ test data only. Large-scale exploratory excavations and in situ testing are more appropriate to assess rockmass behavior and the significance of larger scale discontinuities, including fracturing and materials and property anisotropies. Concerning the existence of gas and brine pockets, only minute

trace detections of gas were made during drilling for this program at Paradox and no brine pockets of any size were encountered thus far during drilling.

The effects of kerogen and carnallite in the repository host rock under elevated temperature conditions from the waste heat is discussed in Sections 6.3.1.2 and 6.3.1.3.3. Sections 6.3.1.2 and 6.3.1.3 were clarified on the basis of information previously reported in the draft EA to reemphasize that the proposed repository lies outside of the depositional limit of potash salts; therefore, Salt Cycle 6 should contain lower concentrations of carnallite than that found in GD-1. In addition limited data was presented in Section 3.2.6 to suggest that carnallite creeps very much like salt when heated to temperatures significantly above the dehydration and "melting" temperatures of carnallite, reported by the commenter.

In summary, Sections 3.2.6 and 6.3 were clarified to indicate that because of the relatively small amounts of carnallite, distance from repository horizon, and low permeability of salt, it is unlikely that any water released through dehydration of carnallite (which should be minimal for expected temperatures) should reach the waste package and increase corrosion.

Issue

A few commenters indicated that variation in the rock/soil properties measurements presented need to be discussed. They noted that the properties may differ between laboratory/in situ tests behavior and rock mass behavior or they may differ among various locations even if general characteristics appear quite similar, and indicated that the source of these differences may be due to any of the following:

- Variations may be due to natural spatial variation from location to location, lack of a statistically representative number of measurements, or technical uncertainties in making extrapolations

- Variations between laboratory/in situ test measurements and rock mass behavior for a single location due to natural spatial variations, the effects of the scale of the area or specimen tested as compared to a large rock mass, or lack of statistically representative/spatially representative measurements.

Response

The DOE agrees with the issue and has clarified the discussion presented in Section 3.2.6 of the EA in accordance with the discussion that follows.

For the first general issue, there can be a variation in rock properties from one location to another and, except for some thermal properties, the mechanical properties reported in the EA are indeed based on a single, deep borehole, GD-1 in Gibson Dome, continuously cored to the repository horizon and below. Also, all the thermal properties are reported from only two boreholes, including GD-1.

It is likely that the wide, natural variability of the intact elastic rock media is already evident in GD-1 and elaboration on this topic has been included in the EA (Sections 6.3.1.3 and 6.3.3.2).

For the second aspect of this issue, the variation from laboratory values to rock mass behavior, it is acknowledged that a great deal of uncertainty exists in selecting appropriate scaling factors to be applied to any laboratory test data in order to predict large scale rockmass behavior. The few in situ tests reported in the EA are useful but do not provide enough data for statistical analysis. Larger sample size is needed to predict rockmass behavior properties for typical repository openings.

The discussions in Section 3.2.6 of the EA have been modified to elaborate on this uncertainty.

Issue

A few commenters indicated a more comprehensive discussion of in situ stress needed to be provided. In particular, interpretation of the existing stress measurements, and an evaluation of the limitations of the measurement methods utilized, needed to be discussed.

Response

The DOE has considered the issue and modified and clarified the discussion presented in Section 3.2.6 of the EA.

The DOE's interpretation of the existing stress measurements is based in part on research that demonstrated in a series of laboratory experiments that conventional hydraulic fracturing testing and analysis techniques determined minimum stress for applied hydrostatic stress conditions on a salt sample, but overestimated minimum stress for applied nonhydrostatic stress conditions. Their results show that although the hydraulic fracturing results in salt were not time-dependent, measurement data were otherwise inconsistent with elastic behavior, and were insensitive to the range of nonhydrostatic stress conditions applied to the test specimens.

Other research results show that the subgrain size of a salt sample is a function of the maximum stress difference imposed on the sample in the past. Their subgrain size data for Paradox Basin rock salt can be interpreted to infer a near-hydrostatic stress condition in Paradox salt.

In the in situ testing for stress by Nelson et al. (1982, ONWI-400), the minimum horizontal stress was analyzed as approximately equal to the lithostatic pressure of the overburden. We tentatively interpret this result to be correct to within approximately 15 percent in view of an inferred hydrostatic stress condition based on research, results for determining minimum stress by hydraulic fracturing in salt under hydrostatic stress conditions.

Limitations do exist for the the hydraulic fracturing method, however these do not invalidate the data. Elaboration of the above limitations on the interpretations of tests conducted and associated uncertainty have been included in Section 3.2.6 of the EA.

Issue

Some commenters stated that a number of coupled-effects performance scenarios need to be addressed more extensively; in particular, the thermochemical effects on the engineering properties of the rock mass, and brine migration behavior (and its related effects such as canister corrosion).

Response

The DOE has reviewed the comment together with appropriate sections of the EA and supporting documents, and found that no modification of the EA is required. The reasoning is as follows:

Large amounts of hydrocarbons will not be generated in the interbed because the maximum temperature reached in the interbed will not be sufficient. Furthermore, the heat impact from the emplaced waste lasts only about 1,000 years, after which the temperature of the salt will have returned almost to its initial temperature. This heating period is short relative to the natural heating episodes that produce natural gas and petroleum. Therefore, the amount of any additional overpressuring caused by heat from the emplaced waste is expected to be a minor effect.

The DOE reexamined the possibility that brine inclusions might move away from the waste package was mentioned as a possible mechanism for radionuclide transport. Brine inclusions containing a vapor pahse do indeed travel away from a heat source. However, once the intergranular boundary is reached, intergranular flow is expected to take over. This mechanism is therefore not expected to contribute significantly to radionuclide release.

Regarding the concern that inclusions can actually cross crystal boundaries and continue to migrate as inclusions, this phenomenon has been observed experimentally, but only under the influence of a large temperature gradient. The temperature gradients in a repository would be too small to drive this type of migration.

The DOE also reviewed the concern that intercrystalline migration may be controlled by pressure gradients rather than temperature gradients, so that use of the Jenks (1979) equation is inadequate, it is very likely that pressure gradients are important to intergranular flow. Jenks originally proposed the use of this equation for both intergranular and intragranular flow based on experimental observation. Attempts to validate this theory using data from the Salt Block II brine migration experiment show that reasonable agreement with the data is obtained.

For the concern that the threshold gradient case should not be used as the excepted condition because of the controversy over the threshold gradient concept, because the conclusions drawn in the draft EA analyses were essentially unaffected by this decision, and because of the strong theoretical arguments favoring the existence of a threshold gradient, the EAs will continue to label the threshold gradient case as the expected condition.

The DOE has concluded that at the maximum salt design temperature of 250 C and at the expected radiation levels that negligible amounts of new brines or chlorine gas will be generated and that they will not pose a threat to workers or the general public.

C.4.1.1.7 Geochemistry

Several commenters expressed concern that the DOE has not adequately considered the potential effects of geochemical conditions and processes on the high-level waste (HLW) disposal system. Areas of particular concern were the description of in situ conditions (including the uncertainty in that description) and the potential for adverse chemical and geochemical effects on the performance of the waste package and the overall system. The comments were grouped into the following major issues: radionuclide mobility and migration, the presence and potential impact of carnallite, postdepositional dissolution, geochemical modeling, and host rock salt mineralogy and petrology.

In that site-specific geochemical information is not available for the Davis Canyon site, pertinent data are provided by rock and formation fluid samples obtained from the GD-1 drill hole located on the southeast flank of Gibson Dome. Expected chemical interactions in the host salt are corrosion of the waste package by thermally migrating brines from the salt and, in the event of waste package failure, leaching of radionuclides from the waste package. The unexpected condition of waste package corrosion by unlimited volumes of intrusive ground water has also been considered in the performance assessment calculations (Section 6.4.2).

The Cycle 6 host horizon contains small amounts of intergranular and fluid-inclusion brine as well as water that is present in hydrous mineralogical phases such as clays and carnallite. The maximum volume of brine available for migration toward and corrosion of the waste package has been recalculated in the revised EA (Section 3.2.7.1) and is less than the 5.0 volume percent value used in the waste package performance calculations. Thermally migrating brines will likely have a relatively high magnesium content, whereas intrusion brines are expected to be low in magnesium (Pederson et al., 1984). The performance assessment calculations conservatively assume other input values that result in shorter projected lifetimes of the waste packages and greater radionuclide release than the expected values. The results of the performance assessments (Section 6.4.2), which demonstrate the presence of the qualifying condition (Sections 6.3.1.2.1 and 6.3.1.2.5), are summarized as follows:

- Waste package corrosion by unlimited quantities of low-magnesium intrusion brine under expected conditions will not lead to waste package failure within 10,000 years after burial.

- Thermally induced brine migration will bring only a moderate volume of high-magnesium brine in contact with the waste package, and the high-magnesium brine that accumulates will not destroy the ability of the waste package to meet the requirements of 10 CFR 60.113.

- A conservative analysis of expected conditions shows that less than 0.001 percent of the 1,000-year radionuclide inventory would dissolve per year.

Specific issues are discussed in greater detail below.

Issue

Commenters were concerned about radionuclide mobility and migration. It was noted that the calculations of radionuclide release presented in the EA may be in error.

Response

The DOE notes that the question of radionuclide mobility and migration can be broken down into four areas of specific concern: oxidation and reduction conditions, potential for colloids or organic complexes contributing to radionuclide transport, mineral sorption properties, and the data base used to calculate solubilities.

The DOE has reexamined the available evidence on oxidation and reduction conditions in the repository horizon and in the deep aquifers. The Cycle 6 host rock contains only minor amounts of water, which is present primarily as hydration water in carnallite. Although little direct evidence exists on the oxidation-reduction potential of water present in the actual host rock, direct redox measurements and calculation of redox couples suggest that ground water in the Leadville Limestone underlying the Paradox Formation is chemically reducing. The evidence, which has been summarized in Sections 3.2.7.2, 6.3.1.2.2, and 6.3.1.2.3 of the revised EA, consists of the following:

- Presence of organic carbon and pyrite in the sedimentary strata (Hite, 1983, Table 5; Padan et al., 1984; McCulley et al., 1984)

- Presence of methane, ethane, and dissolved sulfide in deep-basin brines (Hite, 1983, Table 5; McCulley et al., 1984)

- In situ Eh in deep-basin brines ranging from -80 to -240 mV based on platinum electrode measurements and from -113 to -143 mV based on sulfide/sulfate redox couple calculations (McCulley et al., 1984)

- Limited evidence of short-chain aliphatic acid anions, which are anaerobic decomposition products of sedimentary organic matter, in deep-basin brines (McCulley et al., 1984).

Lindberg and Runnells (1984) point out that obtaining reliable Eh measurements in ground water is problematic, but the presence of redox-sensitive species such as sulfide and methane can provide at least a qualitative guide to the redox status of water. At these low redox potentials expected, redox-sensitive radionuclides are expected to be stable in their lower oxidation states where solubility is minimized.

Gamma radiolysis may alter the ground-water redox state through the production of species such as hydrogen peroxide, oxygen, hydrogen, chlorine, and possibly perchlorate (Panno and Czyscinski, 1984). Similar effects are predicted from alpha radiolysis of brines (Pederson et al., 1984), which will not occur until waste package failure. Brine radiolysis reactions have been experimentally documented at dose rates many orders of magnitude greater than that expected at the waste package surface, and will be limited to the near-field repository environment should they occur. If future research demonstrates significant brine radiolysis at expected repository dose rates, then engineering measures can be implemented to minimize any adverse effects.

The potential for transport of radionuclides as complexes with organic chemical species has been reevaluated in terms of existing data, and Sections 3.2.7.2 and 6.3.1.2.2 of the draft EA have been revised accordingly. Of the drill-stem test fluids collected from the Leadville Limestone at GD-1, only one sample contained no detectable drilling fluid contamination. The total organic carbon concentration of this sample was low, and short-chain aliphatic acid anions, including acetate, were detected in this and other drill-stem test fluids containing low but detectable drilling fluid contamination (McCulley et al., 1984). Although available organic geochemical data on deep Paradox Basin brines are insufficient to reach definitive conclusions, if short-chain aliphatic acid anions are the principal organic species present, then significant radionuclide complexation would not be expected because such compounds are very weak complexing agents (Means and Hubbard, 1985, BMI/ONWI-578). The speciation and amount of organic matter contained in Salt Cycle 6 halite as inclusions and possible effects on radionuclide complexation have not yet been evaluated. The potential for generation of complex organic species by radiolysis of methane and other naturally occurring organic materials has also been reevaluated and concluded to produce degradation products such as formic acid, carbon dioxide, water, and polyethylene (Lind, 1961; Gray, 1984). These compounds are not expected to affect radionuclide mobility (Section 6.3.1.2.2).

Colloids may enhance the transport of radionuclides in ground water under some conditions. Section 6.3.1.2.2 of the EA has been revised to clarify the available information on radiocolloid formation and stability. Brines promote the conversion of stable hydrophilic colloidal suspensions to unstable hydrophobic particles (Stumm and Morgan, 1970, pp. 500-507). The conversion process is accompanied by colloid growth and charge reversal, resulting in large, relatively immobile particles that can be more effectively filtered by geological substrates. The applicability of this phenomenon to radiocolloid transport in a salt repository warrants further investigation.

The draft EA briefly stated in Sections 6.3.1.2.2 and 6.3.1.2.3 that, although sorption might occur in the host horizon, high salinity would minimize its effects. Considerable radionuclide sorption may occur in the clastic sedimentary units surrounding the Cycle 6 host salt, although present data are insufficient to permit a quantitative assessment of this phenomenon. Because no credit for sorption is taken in the performance assessment calculations, no further adverse effects from repository-related processes are possible (see Section 6.3.1.2.3).

The solubility data used for calculation of postclosure system performance (Section 6.4.2.3.4) contain uncertainties and assumptions. There are inadequacies in any currently available data set. Because of the lack of measured values for various species in concentrated brines at elevated temperatures and pressures, the thermodynamic data base used for calculating radionuclide solubilities is not adequate for definitive calculations. The uncertainties in system performance calculations caused by the uncertainties in the thermodynamic data base are discussed in revised EA Section 6.4.2.3.4.

Issue

Commenters stated that the potential impacts of large amounts of carnallite that might exist at or near the repository horizon of the site were insufficiently addressed in the EA.

Response

At GD-1 the Salt Cycle 6 host unit is about 73 meters (241 feet) thick and consists of approximately 46 meters (150 feet) of carnallite markerbed, defined as that part of the unit having a potassium content in excess of 0.05 percent, in its upper horizon. The carnallite markerbed contains only a few percent carnallite, which is dispersed through the entire bed, and is believed to decrease in thickness considerably in the site area (Hite, 1982). Three principal concerns were raised concerning the presence of carnallite in the upper horizon of Salt Cycle 6: (1) carnallite, which contains 38.9 percent water by weight, may provide a source of brine that may migrate to the repository horizon and participate in waste package corrosion; (2) brines resulting from dissolution or dehydration of carnallite may be high in magnesium, which accelerates waste package corrosion; and (3) the hydrometamorphic alteration of carnallite may result in a change in rock volume, which may in turn impact rock strength. Those sections of the revised EA that more thoroughly address these issues are summarized below.

The Cycle 6 host horizon contains small amounts of intergranular and fluid-inclusion brine as well as the water present in hydrous mineralogical phases such as clays and carnallite. Essentially all of the water released from Salt Cycle 6 high-potassium zones at 200 C (392 F) and less will be from carnallite (Conner, 1983). Based on conservative calculations of mean water contents of Cycle 6 halite, clay, and carnallite, the maximum amount of brine available for migration toward and corrosion of a waste package is shown to be slightly less

than the 5.0 volume percent value used in the waste package performance assessments in Section 6.4.2. The detailed calculations are presented in revised EA Section 3.2.7.1 and are synopsized in Sections 6.3.1.2.2, 6.3.1.2.3, and 6.4.2.3.2.

It is unlikely that all of the brine in Cycle 6 strata will migrate to the waste package at repository temperatures. The migration of intergranular water may be blocked, and molecular water may remain trapped in halite, even at high temperatures and despite long periods of heating (Roedder and Bassett, 1981). In addition carnallite loses water in stages with increasing temperature, and the amount of water that will be released from carnallite dehydration in the repository thermal environment is expected to be significantly less than its total theoretical yield (Conner, 1983). Furthermore, because waste packages will be located at some distance from the carnallite markerbed, carnallite dehydration water may never reach the waste package surface. The permeability of the halite matrix is probably such that water from the carnallite will remain in place. The thermal migration mechanism for fluid inclusion transport may not apply to water in halite 9 meters (30 feet) or more from the thermal source. Realistic estimates (Sections 3.2.7.1, 6.3.1.2.2, 6.3.1.2.3, and 6.4.2.3.2) of brine volumes available for waste package corrosion suggest values significantly less than the 5.0-volume-percent value used in the performance assessment calculations.

Site-specific compositional data for Cycle 6 brines are not available. Expected brine compositions are more thoroughly discussed in revised EA Sections 3.2.7.1, 6.3.1.2.2, 6.3.1.2.3, and 6.4.2.3.2. If analogous to Waste Isolation Pilot Plant and expected Palo Duro Basin, Texas (Hubbard et al., 1984) brines, then Paradox thermally migrating brines can be expected to be relatively high in magnesium and potassium, in addition to sodium and chloride.

Brines could also form by dissolving salt in the unlikely event that the repository is flooded by external water. The composition of these types of brines is relatively well known in that they represent the water-soluble fraction of the salt. Such intrusive brines are expected to be low in magnesium and potassium, similar to that of an experimentally produced composite Paradox Basin dissolution brine discussed by Pederson et al. (1984). Despite the presence of the magnesium-bearing evaporite minerals, carnallite and kieserite, in the upper section of Salt Cycle 6, numerous processes are expected to limit the magnesium concentrations of any intrusion brine that flows through the carnallite marker bed on its way to the repository. Any brine flowing rapidly through Salt Cycle 6 likely will not have the opportunity to saturate with magnesium. Although the solubilities of carnallite and kieserite are very high (Weast, 1984), a brine intruding into the repository horizon must already be saturated in halite. The magnesium concentration of the brine will be further attenuated by the precipitation of magnesium-bearing minerals, some of which exhibit decreasing solubility with increasing temperature. Dilution of higher-magnesium fluids by lower-magnesium fluids is also expected to occur.

The carnallite markerbed is expected to be located at least 9 meters (30 feet) from the repository, and at this distance the maximum temperature to which the carnallite will be exposed is 90 to 120 C (194 to 248 F). In this

temperature range, hydrometamorphic reactions such as dehydration and phase transformation are possible, but melting is not expected. Carnallite begins to dehydrate at 90 C (194 F) and melts at 265 C (509 F) (Conner, 1983; Weast, 1984). Kieserite, which occurs in low quantities in Cycle 6 with the carnallite, begins to both dehydrate and melt at approximately 365 C (689 F) (Conner, 1983). Under hydrous conditions carnallite may undergo phase transformations, but the expected products are minerals with higher melting points (Braitsch, 1971). Brine formation also accompanies the transformation reactions, but the low permeability of Cycle 6 halite suggests that brines resulting from carnallite decomposition or dehydration would probably remain in place and not migrate. Carnallite transformation reactions are accompanied by a small change in volume, which has been calculated in Section 6.3.1.2.2 of the revised EA. Therefore, although the data do not permit definitive conclusions, compelling evidence for geochemical processes that degrade rock strength does not exist (Sections 6.3.1.2.2 and 6.3.1.2.3).

Issue

Commenters stated that geochemical evidence of postdepositional dissolution should be discussed. Evidence of postdepositional dissolution may indicate poor stability and lack of isolation of the repository horizon from the accessible environment.

Response

The locations of known and suspected dissolution features are provided in EA Sections 6.3.1.6.1 and 3.2.5.6. None of these features are believed to be indicative of processes that could affect the isolation capabilities of the site during the next 10,000 years. Furthermore, Salt Cycle 6 has distinctive bromide profiles, with high bromide concentrations in its upper horizon, suggesting that no outside ground water has affected the salt.

Issue

Commenters expressed concern that geochemical modeling was not used adequately as a tool for describing and predicting geochemical conditions and interactions with engineered materials.

Response

The DOE has an ongoing program, as part of performance assessment, in the development and application of geochemical models for various aspects of system performance. A repository in salt presents a chemical environment characterized primarily by an extremely high level of dissolved solids in any water present. Geochemical models currently available have been designed for use in dilute solutions, and are not adequate predictors of geochemical interactions in brines. Also, the thermodynamic data base for various radionuclide solution

species is subject to uncertainties and estimations and therefore is not adequate for definitive calculations. One computer code, EQ3/EQ6, is currently being modified for use on repository conditions (INTERA, 1983, ONWI-472). Plans for the application of this code for waste package, repository, site, and total system performance assessments are discussed in the performance assessment plan for the salt repository project (ONWI, 1984, BMI/ONWI-545).

Issue

Several commenters maintained that the quantitative description of the host salt unit was in error, and that the thermal and solubility behavior of the minerals was not thoroughly discussed or accounted for in performance calculations.

Response

The DOE has revised Sections 3.2.7.1 and 6.3.1.2.2 regarding the mineralogic constituents of the Cycle 6 host salt sampled at GD-1. Generally the primary mineral constituents of Salt Cycle 6 are halite, anhydrite, carnallite, and kieserite. The carnallite and kieserite are located in the upper portion of Salt Cycle 6. Secondary minerals include sylvite, polyhalite, magnesium borates, magnesite, and trace amounts of quartz, geothite, biotite, muscovite, anatase, rutile, talc, and various clay minerals.

Processes that might degrade rock strength include melting of host rock minerals, thermal dehydration accompanied by volume reduction, and radiolytic decomposition of mineral phases. Under the expected repository thermal conditions of less than 250 C (482 F) in the near-field and less than 120 C (248 F) at a distance of 5 meters (16 feet) or more from the waste package, hydrometamorphic mineralogical reactions such as hydration, dehydration, and recrystallization may be of concern, but melting is considered extremely unlikely. EA Sections 6.3.1.2.2 and 6.3.1.2.3 have been revised to more thoroughly document expected repository effects on the host rock. The revised text on salt mineralogical constituents and thermal and solubility behavior of the minerals has not lead to changes in the performance assessment calculations in Section 6.4.2.

Minerals present in the Cycle 6 host horizon melt at temperatures (Weast, 1984) far exceeding the maximum expected repository temperature of 250 C (482 F), and eutectic phases with significantly lower melting points are not expected.

Furthermore, at expected temperatures, the minerals with lower melting points, carnallite and kieserite, may undergo phase transformations (Braitsch, 1971), and the expected transformation products are largely halite and sylvite, which melt at 800 and 770 C (1,472 and 1,418 F), respectively (Weast, 1984), plus brine. Such transformation reactions are accompanied by a small change in volume, the direction of which depends upon whether the brine is retained in the near-field or migrates away. The maximum expected volume change, which is low,

has been calculated in Sections 6.3.1.2.2, 6.3.1.2.3, and 6.4.2.3.2 of the revised EA.

Clay minerals are present in very low concentrations and may undergo thermal dehydration resulting in changes in their physical properties. Any associated volume change is expected to be totally offset by salt creep and expansion around the waste package.

Gamma irradiation of halite can produce sodium metal and free chlorine; however, the effect is very localized and experimentally documented only for total doses exceeding 10 million rads (Levy and Kierstead, 1982, BNL-32004; Panno and Soo, 1983). Also, if free chlorine does not evolve from the salt, the decomposition products may react back to form sodium chloride (Pederson et al., 1984). The radiolytic decomposition of halite has not been documented at the dose rate of approximately 20 to 40 rads per hour expected at the waste package surface (Jansen, 1985).

C.4.1.1.8 Mineral Resources

Issue

A few commenters suggested that petroleum exploration data indicate a greater potential for oil and gas resources at the site than indicated in the EA; thus, conclusions related to future exploration potential may be in error.

Response

The DOE has revised Section 3.2.8.1 of the EA to increase the discussion of the occurrence of oil and gas in the GD-1 borehole, and in petroleum exploration boreholes in the candidate area. A comparison of levels of exploration activity and production in the candidate area with other areas in the Paradox Basin is included. The discussion of structural and stratigraphic controls on hydrocarbon occurrences, recent exploration trends, and favored exploration targets in the basin has been expanded. A more detailed evaluation of the hydrocarbon potential within 10 kilometers (6.2 miles) of the site, where potential hydrocarbon production could conflict with repository activities, has been made by comparing the geology of the site vicinity to the geology of known hydrocarbon-producing areas in the Paradox Basin. These comparisons indicate that favorable structural or stratigraphic traps, which could be potential exploration targets, are not known to exist in the site vicinity, and that the hydrocarbon production potential of the site vicinity remains very low in comparison to other areas in the Paradox Basin.

Issue

A few commenters noted that the potential for potash exploration near the site has been underestimated in the EA.

Response

Sections 3.2.3.3 and 3.2.8.2.2 of the EA have been revised to expand and clarify the discussion of potash mineralization in the GD-1 borehole. Maps were added to show potash thickness trends across the candidate area to indicate expected conditions beneath the site. A comparison was made of the thickness of potash-bearing zones within the site vicinity with thicknesses over the rest of the basin. If potash became a scarce commodity in the future, these thicknesses indicate where trends of future potash exploitation by either solution or shaft mining might occur. A comparison of the grade and thickness of the potash occurrences at the GD-1 borehole and those expected at the site was made with data from current economic deposits in the basin and the world to provide a point of reference in evaluating the economic attractiveness of occurrences in the site vicinity. These analyses indicate the potash occurrences in the site vicinity are small compared to those considered for exploitation under current market conditions, and that much of the Paradox Basin is underlain by potash zones of greater thickness than those in the site vicinity and would probably be exploited first under conditions of scarcity.

Issue

One commenter pointed out that the number of mineral leases near the site has not been factored into resource estimates.

Response

The DOE has added data on claim and lease activity to Section 3.2.8.3 of the EA; however, it was noted in the EA that there is no particular correlation between lease and claim activity and actual mineral occurrences.

Issue

One commenter asked that potash data in Chapter 3 be reconciled.

Response

The DOE has revised Chapter 3 and the data on potash potential have been reconciled.

C.4.1.1.9 Soils

Issue

Several commenters suggested the discussion on soils be expanded to include assessments of existing salinity levels, the potential effect of mixing soil

layers or horizons of different salinity levels, and an evaluation of revegetation potentials under increased salinity levels. It was also pointed out that revegetation will depend on the ability to successfully salvage, protect, and replace soils of the area without significantly altering the soil salinity and sodicity. One commenter stated that the maps presented in this section are inadequate for reclamation purposes.

Commenters also suggested that the discussion of soils needs to be expanded to address the impacts of site activities on the erosion of soils by wind and water. It was indicated that no mention was made of the cryptogamic surface crust that plays an important role in stabilizing soils against erosion and in nutrient cycling. According to the commenter, a certain soil type (Begay soil) that is found in the region is highly susceptible to wind erosion. The EA should indicate the location and depth of this soil type in the area that may be affected. Another commenter noted that the EA did not adequately describe soil types in other areas to be disturbed, such as along transportation and utility corridors, in order to adequately assess short-term and long-term impacts.

Response

The impacts of site activities, including activities in other areas potentially affected by site characterization, on soil erosion by wind are discussed in Sections 4.2.1.5.1 and 5.2.1.1. Section 4.2.1.5 describes some typical approaches for controlling erosion and stockpiling soil for restoration. Related to the erosion question, Section 4.2.1.4.1 describes use of surface water control ponds to reduce the impact of surface erosion in water quality. Information on revegetation and salt impacts in soils and plants are discussed in Sections 4.2.1.2, 4.3.4, 5.2.4, and 5.5.5. The discussion in Section 4.2.1.2 on revegetation indicates that the DOE is not underestimating the difficulty of revegetation in the arid environment of Davis Canyon. Section 3.2.9 of the EA presents a description of regional soil types which are shown in Figure 3-46. This map adequately covers areas likely to be affected by offsite activities. In addition, Section 3.2.4 of the EA has been modified to provide additional data on cryptogamic surfaces and Begay soils in the site area. No additional changes to this section are required. Section 4.2.1.5.1 has been modified to discuss reclamation of these soils.

C.4.1.2 Hydrologic Conditions

This category addresses comments, questions, and concerns on the accuracy or adequacy of the baseline hydrologic conditions at the Davis Canyon site. Because of the large number of comments received in this category and the variety of subjects that this category covers, it has been subdivided into several smaller subcategories: surface water, ground water, and current use. These subcategories were selected to be closely aligned to specific sections of Chapter 3 of the EA.

Issues raised by the commenters include:

- The possibility of salt dissolution creating a faster flow path
- Possible contamination of the Colorado River
- The inadequacy of available data on fuel characterization
- Ground-water flow paths for migration from Davis Canyon
- The choice of travel paths for ground-water migration
- The uncertainty of various flow parameters.

C.4.1.2.1 Surface Water

Issue

Numerous commenters felt that surface water information in the EA should be expanded or corrected to clear up errors and inconsistencies.

In particular, additional information was requested about the following:

- Extent and magnitude of investigations which provided the information base
- Channel characteristics of the site
- Natural resource value of the Colorado River
- Surface water use in the site vicinity
- Location of surface facilities and the limits of the probable maximum flood (PMF)
- Mitigation plans to limit flooding impacts.

Commenters stated that errors and inconsistencies included the following:

- The rainfall description in EA Sections 3.3.1.1 and 3.3.1.4
- Flow data in Section 3.3.1.4
- Flood plain delineation in the Figure 3-51, (Davis Canyon Probable Maximum and 100-Year Flood Plains)
- The description of Indian Creek in Sections 3.3.1.1 and 3.3.2.1 of the EA, and Section 3 of the Executive Summary
- The use of "salinity" and "total dissolved solids" in Section 3 of the Executive Summary

- The conversion of acre-feet to cubic kilometers in EA Section 3.3.1.5

- Procedures used and results obtained in estimating flood plains and debris flows.

One commenter stated that stream flow and water quality data in Section 3.3.1.2 were out of date and inadequate.

Response

EA Section 3.3.1 was reexamined to assure that all data utilized in evaluations are completely referenced. These references document the extent of investigations which comprise the DOE's base of information on surface water characteristics. Reference to the resource value for the Colorado River is contained in a supporting document (DOE, 1984). Section 3.3.3 was expanded to include additional data on local water users. Figures 3-51 (Davis Canyon Probable Maximum and 100-Year Flood Plains) and 4-6 (Exploratory Shaft Facility Area Plan, Davis Canyon) were used to locate key surface facilities (e.g., the ESF) relative to the PMF and 100-year PMF flood plains. The DOE concluded that the ESF is not within the 100-year or probable maximum flood plains. Also, EA Sections 4.2.1.4.1 and 5.2.2.1 address expected impacts due to flooding and discuss designs planned to mitigate these impacts.

The EA was reviewed to correct errors and to resolve inconsistencies. Section 3.3.1.1 was modified to indicate that a high variability in precipitation exists, depending on season, and that about 25 percent of the mean annual precipitation can sometimes occur in a single day. Peak discharge data for Cottonwood Wash in Section 3.3.1.4 were reviewed and corrected using the significantly lower flow data cited by the commenters. Figure 3-51 (Davis Canyon Probable Maximum and 100-Year Flood Plains) was reviewed and redrawn to more accurately depict the flood plain relative to the repository surface facility boundary. Confusing statements were clarified; in particular, the reference to an "intermittent wash" was tied to the Davis Canyon wash rather than to Indian Creek, and the statement about both salinity and total dissolved solids was simplified. The cubic kilometer and acre-feet data in Section 3.3.1.5 were checked for accuracy. A reference to time in Section 3.3.1.5 is given (i.e., "annual"), so these data are flow data (i.e., billion cubic meters per year); thus, no EA changes were necessary.

Section 3.3.1.4 was expanded to include details on the methodology used in calculating the probable maximum and 100-year flood plains. The methodology incorporates computer programs developed by the U.S. Army Corps of Engineers to aid in estimating flood levels. The DOE concludes that these methods adequately portray flood plain levels, and the information is adequate for purposes of the Environment Assessment.

The stream flow data for Indian Creek reported in Section 3.3.1.2 and the water quality data in Tables 3-17 (Indian Creek Water Quality at Kelly Ranch), 3-18 (Indian Creek Water Quality at Selected Locations Downstream from Kelly

Ranch), and 3-19 (Comparison of Kelly Ranch Sample Water Quality with Downstream Locations for Like Sample Dates) represent best available data at the time the EA was written.

C.4.1.2.2 Ground Water

Issue

Some commenters noted inconsistencies in reported pressure measurements from which potentiometric levels were calculated, and asserted that upward gradients existed within the overall downward gradient at borehole GD-1. Concern was expressed about overpressures in the Paradox Formation based on overpressures encountered during oil well drilling about 53 kilometers (33 miles) north of the site.

Response

The DOE notes that calculated potentiometric levels varied in the Paradox Formation from short- to long-term tests. The long-term tests measure a large volume of rock; therefore, long-term test data are more representative, but do show an anomalously high potentiometric level at the 914-meter (3,000-foot) depth (Table 3-23 [Gibson Dome No. 1 Hydraulic Test Results Summary] in the EA). The anomalous levels and general uncertainty are due, in part, to the extremely low conductivities of bedded salt and the resultant difficulty in their measurement, further complicated by salt squeeze. Local upward gradients exist in the Honaker Trail Formation at the base of the upper hydrostratigraphic unit, and in the upper part of the Paradox Formation in the middle hydrostratigraphic unit, as is now noted in Sections 3.3.2.1 and 6.3.1.1 of the final EA. Disruptive overpressures were not encountered in drilling completed test wells but are a possibility in drilling future hydrologic test borings.

Issue

Some commenters expressed concern about drilling and construction activities at the Davis Canyon site contaminating shallow aquifers, primarily from disposal of mined salts.

Response

The impacts of site characterization and repository construction are discussed in EA Chapters 4 and 5. Salt disposal is discussed in Sections 4.3.4.2, 5.1.3.4, and 5.1.4.3. Most of the salt excavated during site characterization and construction would be used to backfill excavations if the site is decommissioned. The remainder would be disposed of by emplacement in an offsite mine.

The DOE will drill dozens of shallow monitoring wells (Section 4.1.1) during site characterization which would monitor contamination of shallow aquifers, if any, by characterization and exploratory shaft construction and operation activities. Monitoring would continue through repository construction and operation.

Issue

Several commenters noted the possibility of salt dissolution creating a faster flow path and shorter travel times to the biosphere. One commenter remarked on the presence of carnallite, a hydrated potassium-magnesium chloride, which, if dissolved in large quantities, could create a very corrosive brine capable of breaching the engineered barriers of the repository. One commenter also noted the presence of high salt-content water in formations overlying and underlying the Paradox Formation evaporites.

Response

Mineralogic and petrologic data from the GD-1 core show no evidence of dissolution of the Paradox evaporites since deposition and early diagenesis in the Pennsylvanian period, 300 million years ago. The high salinity of Leadville Limestone water samples at the GD-1 borehole indicates salt dissolution (McCulley et al., 1984, Table 3.1). However, no isotopic evidence was found to indicate that circulating ground waters are modern meteoric waters. Regional data on total dissolved solids (TDS) (WCC, 1982, ONWI-290, Vol. 1, Fig. 9-17) indicate that TDS generally increases to the northeast of the site, indicating that the source of the salinity observed in the GD-1 borehole is in the fold and fault belt of the basin or in known dissolution areas (e.g., Lockhart Basin). Isotopic evidence (McCulley et al., 1984) cited in the same section suggests the Honaker Trail Formation water, which overlies the Paradox Formation, is an admixture of evaporated seawater and ancient meteoric water, rather than modern Paradox water. This argues against geologically recent dissolution and suggests the source of the Honaker Trail water is ancient connate or diagenetic water. If major dissolution had occurred, it would be reflected in breccia pipes and surface depressions, which have not been observed in seismic and geologic mapping work to date. If dissolution were to begin at some future date in the repository area, both the geologic conditions necessary to promote dissolution and sufficient time to create the new pathway by dissolution would have to occur before ground-water flow could occur.

Studies of natural dissolution rates in Texas (Gustavson et al., 1980, page 36) and induced dissolution at the Cane Creek mine in the Paradox Basin (Jackson, 1973) indicate that dissolution is a slow process (Section 6.3.16). Long periods of time would be required for dissolution to create new pathways for ground-water flow. Data gathered to date do not indicate the presence of conditions conducive to dissolution in the site area.

Issue

Several commenters listed possible contamination of the Colorado River as a prime concern because it is used extensively in the arid southwest for water supplies and irrigation and contamination would affect many people.

Response

Section 6.3.1.1 of the EA addresses this concern with conservative estimates of travel paths to the Colorado River. These estimates assume no impedance of radionuclide migration by waste canisters, waste form, retardation, or dispersion during transport. The conservative estimate using current conditions for pre-waste-emplacement ground-water travel indicate that ground-water travel times from the repository to the Colorado River would be many thousands of years and would involve a very low concentration of nuclear waste. The current data indicate that any potential future releases from a repository would not exceed the EPA standards for containment and population risk. No revisions to the EA text have been made.

Issue

Many commenters have expressed concern over inadequate data being available for full characterization of the Davis Canyon site geohydrology. These commenters note only one borehole (GD-1) has been drilled for the project to supply definitive hydrologic data. Commenters noted that in regions of consolidated rock, where permeability and porosity are secondary, most of the flow will probably occur in localized zones of higher conductivity, from dissolution, jointing, or fracturing. These zones may be separated by large blocks of very low conductivity strata, which will give a falsely low average conductivity. It was felt that estimating reliable travel times without detailed field data is virtually impossible.

Response

The evaluations of ground-water flow in the Davis Canyon area are based on data from numerous oil and gas wells in addition to program borings. Revised modeling studies have been conducted to account for possible ground-water movement through secondary porosity. Results of these studies are described in EA Sections 3.3.2.1, 6.3.1.1, and 6.4.2. It is believed that this level of information is consistent with the requirements of DOE's siting guidelines (10 CFR 960.3-1-4-2).

Issue

Some commenters noted that ground-water flow paths for migration from the Davis Canyon site would probably flow through the southern boundary of Canyonlands National Park. They state that one or two boreholes within the park are required to adequately assess the suitability of the site as a waste repository.

Response

Section 4.1.1 of the EA has been modified to present more details of the DOE's characterization program. The locations of the proposed sites for the activities have been selected on the basis of engineering layouts, and geologic, environmental, and access considerations. As shown in this section, no field activities are planned within Canyonlands National Park. Hydrologic properties of rock units and the ground-water system are expected to be adequately characterized through drilling, testing, and monitoring between the site and the park boundary (the downgradient flow direction). The ground-water velocities are expected to be extremely slow (as described in Section 6.4.2.3.5) and regulatory requirements pertaining to characterization of ground-water travel are expected to be met within the 5,760-acre site area and a controlled area excluding the park. The potentiometric surfaces within the geohydrologic units are expected to be fairly uniform, and any changes in potentiometric levels with time are expected to be gradual. These potentiometric surfaces can be defined without drilling in the park.

As with all exploration programs, final locations of activities may be modified based on updated data and revised interpretations (since initial results of testing are used to verify their placement).

Issue

Some commenters expressed concern about the choice of travel paths for ground-water migration from Salt Cycle 6 to the accessible environment. Concern was raised about possible upward flow paths from the Paradox Formation into the Honaker Trail Formation, based on evidence of local upward gradients from potentiometric level measurements at the GD-1 borehole.

Response

The DOE has addressed these issues in revising Sections 3.3.2.1 and 6.3.1.1.2. In the EA, other flow paths than those considered in the draft EA are considered and evaluated. This modeling work also considered the probability of and potential effects of local upward gradients.

Issue

Some commenters noted the uncertainty of various flow parameters, such as porosity and hydraulic conductivity. Hydraulic conductivity may vary by several orders of magnitude within the same formation due to secondary porosity effects such as fracture zones and solution cavities, and to differences in sedimentation style (degree of sorting, mean particle size, etc.).

Response

The DOE recognizes this variability and has formulated the estimates to include the full range of values in data collected in revised modeling studies described in Section 3.3.2.1. These existing data are probably skewed toward values of hydraulic conductivity that are higher than the average values for the formations because of the general practice of testing only the most permeable intervals in both the petroleum exploration boreholes and the GD-1 borehole. Laboratory testing for hydraulic conductivity and porosity on the core from the GD-1 borehole was also generally confined to the most permeable zones. The values used in calculating ground-water travel times are generally taken from the most conservative end of the range of values in the present data base.

Increases in hydraulic conductivity resulting from secondary porosity effects have been addressed in the discussion of ground-water flow paths and travel times in Section 6.4.2.3.5.

Issue

Several commenters have stated that they question whether the DOE complied with guideline 10 CFR 960.3-1-4-2 (Site Nomination for Characterization), which only allows conservative assumptions that would tend to underestimate the ability of a site to meet qualifying conditions. They state that the absence of any substantial fracture networks in GD-1 borehole is not conclusive evidence that extensive effective fracture networks do not exist on the site, and that a conservative approach would decrease travel time estimates to allow for expected secondary fracture permeability.

Response

The DOE acknowledges these concerns which are addressed in Sections 3.3.2.1 and 6.3.1.1.2 of the EA. Ground-water travel times are calculated in a conservative manner by using the highest hydraulic conductivity measures. These values were largely determined from short-term drill-stem tests, which test a smaller area than long-term drill-stem tests and are, therefore, considered to be less representative of the true hydraulic conductivities of a formation.

Geochemical (isotopic) water-chemistry data cited indicate the absence of meteoric water. The presence of meteoric water might be indicative of rapid recharge through vertical fractures. The variability of the potentiometric level data from the Paradox Formation indicates that fracturing is not creating significant vertical connections between the interbeds. Fracture flow is considered a low probability event in revised ground-water flow and travel time estimates in the EA (Section 6.4.2.3.5).

C.4.1.2.3 Current Use

Issue

Several commenters had concerns about the following:

1. The use of the Colorado River as a recreational area and as a source of water for several metropolitan areas should be carefully considered.

2. The projections of water use do not appear to consider the water needs of the repository.

3. The projected 400 percent increase in water use is not possible because all available water has already been appropriated, and almost fully developed.

Response

The proximity of the Colorado River to the site and the various important uses of this river were considered in the EA. Specifically, EA Sections 3.3.1, 3.4.1, and 3.4.2 include discussions regarding Colorado River drainage, water quality, flow, recreational use, and ecosystems, and Section 3.3.1.3 was expanded to include additional Colorado River data. Impacts on the Colorado River due to site characterization and repository activities are also addressed in Sections 4.4.1 and 5.6.1.

Regarding projected water use and supply, EA Section 3.3.1.5 presents projected Colorado River water availability and demand, and Sections 4.2.2 and 5.4.3.5 address the project's impact on local water supplies. In the time periods for site characterization and repository developments, supplies are expected to meet the increased demand, including the project. It is anticipated that the San Juan County Water Conservatory District should have sufficient water input to meet potential project demand. Consequently, assuming water rights are obtained, the impact on the region should be minimal.

The 400-percent increase in water use for the region (see Section 3.3.1.5 of the EA) was taken from a State of Utah reference (Utah Department of Natural Resources, 1972), and consequently reflects the State's opinion. Section 3.3.1.5 of the EA was expanded to include future water requirements as reported by the U.S. Water Resources Council. These new data also indicate an increase in water consumption for the region.

C.4.1.3 Environmental Conditions

This category addresses comments, questions, and concerns on the accuracy or adequacy of the baseline environmental conditions at the Davis Canyon site.

Because of the large number of comments received in this category and the variety of subjects that this category covers, it has been subdivided into several smaller subcategories: land use, ecosystems, air quality and weather, noise, aesthetic resources, archaeological, cultural and historic resources, and background radiation. These subcategories were selected to be closely aligned to specific sections in Chapter 3 of the EA.

Issues raised by commenters include:

- The EA's presentation of baseline environmental conditions
- Discussion of areas contiguous to Canyonlands National Park
- Regional resources
- Status of the endangered peregrine falcon
- Fishery data
- Adequacy of the data base for biological resources
- Inadequate climatological data
- Inadequate sound-level data
- Cultural resources baseline data
- Placement of the rail access route
- Discussion of a major gas transmission line.

Issue

Commenters raised several issues relating to the EA's presentation of baseline environmental conditions. Issues pertained to the value of Canyonlands National Park as a scenic wilderness and the adequacy of the EA data on the various environmental topics (i.e., land use, ecosystems, air quality, noise, aesthetic resources, cultural resources, and background radiation). These issues are summarized below, and presented in more detail in CRD subsections C.4.1.3.1, C.4.1.3.2, C.4.1.3.3, C.4.1.3.4, C.4.1.3.5, C.4.1.3.6, and C.4.1.3.7.

- Many commenters mentioned the intangible qualities of the Canyonlands area valued by its visitors: its remoteness, solitude, unique beauty, and sense of wilderness. Commenters felt that the Park visitor survey data and other baseline data in the EA did not adequately account for these values.

- Commenters stated that the EA's land use discussion did not describe land management practices along the Park entrance corridor, and did not discuss other nearby recreation areas.

- Several commenters felt that additional data was needed on protected species, habitats, and biological resources.

- Commenters stated that the air quality and climatological discussions did not include on-site data and severe weather assessments.

- Several commenters stated that the background sound level data was inadequate.

- Several commenters questioned the completeness of the cultural resources data and the DOE's compliance with cultural resource legislation.

- A few commenters stated that background radiation levels presented in EA were not representative of the area.

Response

Responses to the issues noted above and to related issues appear in CRD subsections C.4.1.3.1, C.4.1.3.2, C.4.1.3.3, C.4.1.3.4, C.4.1.3.5, C.4.1.3.6, and C.4.1.3.7. A summary of these responses follows.

Chapter 3 of the EA has been revised to incorporate new data on baseline environmental conditions. Text has been added to the land use section (Section 3.4.1) to describe the scenic, recreational, and land use character of Canyonlands National Park, its entrance corridor, and the other nearby recreation and wilderness areas, as well as the current information provided on visitation statistics. Land management practices surrounding Canyonlands National Park and nearby areas has been included in the EA (Section 3.4.1.3.1). Additional field surveys and consultations have provided new data on protected and special-state interest species (Section 3.4.2.1). The discussion of air quality and meteorology (Section 3.4.3) has been revised with new meteorological data and a more consistent presentation of information. New background sound-level data has been obtained (Section 3.4.4). Revisions were made to reflect the qualitative significance of cultural resources and to correctly report the number of archeological sites near the Davis Canyon site (Section 3.4.6). Background radiation levels have been revised (Section 3.4.7).

For several issues, the DOE reviewed the existing information in the EA, and concluded that it is adequate: In response to commenters' suggestions that detailed descriptions of habitats be included, the DOE reevaluated Section 3.4.2 and concluded that its content and detail are adequate for purposes of the EA. The DOE determined that the existing air quality data in Section 3.4.3 is satisfactory, and points out that severe weather information is included in Section 3.4.3.6. DOE has determined that the archeological field studies already performed and referenced in Section 3.4.6 are adequate for EA analysis, and reaffirms that it is complying with statutory requirements for cultural resource identification and protection.

The DOE acknowledges the scenic and intangible values of Canyonlands National Park and will treat the Park as a Class I Visual Resource Management Area, although not officially classified as such by BLM.

Information on baseline environmental conditions will be supplemented by more detailed site specific data collected during planned future activities (Section 4.1.3.1).

C.4.1.3.1 Land Use

Issue

Commenters felt that the discussion of areas contiguous to Canyonlands National Park was inadequate. Specifically noted was a failure to review the Park's management objectives and statement of purpose and its role as a nationally significant scenic, historic, and scientific resource. Commenters also noted an inadequate discussion of the land practices surrounding the park, areas of Canyonlands National Park that are under consideration as wilderness study areas, and visitor usage trends.

Response

The DOE has added a new subsection to EA Section 3.4.1 that expands the discussion on Canyonlands National Park and surrounding areas. This section discusses the purpose and objective of the park as established in the Canyonlands National Park Act (16 USC Section 271) and the Canyonlands General Management Plan (NPS, 1978). Additional data on park usage has been added as well. The areas within Canyonlands under wilderness consideration have been identified in Section 3.4.1.3.3.

Issue

Commenters felt that the discussion of the regional resources and the regional setting surrounding the Davis Canyon site was inadequate. Many commenters noted that there was no mention of several nearby recreation areas and usage of these areas.

Response

Additional text has been added to Section 3.4.1 describing the scenic, recreational, and land use characteristics surrounding the Davis Canyon site. A discussion on the "Golden Circle" of parks within the vicinity has been added to the text in this section. The major recreation resources discussed in the EA (Section 3.4.1.3.2) now includes Glen Canyon National Recreation area, Arches National Park, the Colorado and Green rivers, the Manti-La Sal National Forest, Dead Horse Point State Park, Newspaper Rock State Historic Monument, the various BLM recreational areas, and the Indian Creek, Bridger Jack Mesa, and Butler Wash Wilderness study areas.

Issue

Several commenters questioned the data describing rangeland and the terminology used to describe rangeland.

Response

The DOE has verified the data presented in Section 3.4.1 on rangeland and has clarified the estimates of cattle grazing capacity on BLM lands. The DOE reviewed the terminology used to describe land use in the study area and removed the use of "unimproved rangeland" from the text of Section 3.4.1 of the EA.

C.4.1.3.2 Ecosystems

Issue

Several commenters questioned the status of the endangered peregrine falcon in and around Davis Canyon, as reported in the draft EA. Other commenters raised concerns about the data base on other protected species, particularly the Colorado squawfish, humpback chub, razorback sucker, bald eagle, and golden eagle. Several species of special State interest, including the desert bighorn sheep and mule deer, were also singled out by commenters.

Response

Information on the status of protected species in the vicinity of the site is based on a thorough literature review and contacts with both public and private experts.

Specialists with the National Park Service (NPS), the Bureau of Land Management (BLM), the Fish and Wildlife Service, and the Utah Department of Fish and Game were also contacted to update the DOE's data base with current information. Additionally, a survey was conducted along proposed access route corridors, in the vicinity of the site, and in specific areas of species sitings.

The DOE has revised the characterization of protected and special interest species in EA Sections 3.4.2.1.1, 3.4.2.1.2, and 3.4.2.3. Additional sightings of peregrine falcons were added; however, statements relative to new eyries could not be confirmed by BLM or NPS study teams or by the DOE. New information on habitats for wintering bald eagles, white-tailed prairie dog, and an additional peregrine falcon eyrie near Moab, was added to the Figure 3-69 (Birds, Fish, and Small Mammals). Additional information on ranges for mule deer, pronghorn, desert bighorn sheep, and mountain lion was confirmed and added to the Figure 3-70 (Big Game Ranges).

Subsequent contacts with the Colorado River Fisheries Program of the Fish and Wildlife Service (FWS), which have also been documented in the EA, have disclosed that the FWS program's researchers are uncertain of the status of the Colorado squawfish in and around the mouth of Indian Creek. The FWS program has not completed any recent surveys of the area nor has it determined whether the area should receive any additional protective measures, since it has not been designated as critical habitat for the species. Adult fish are not known to spawn or reside in significant numbers in the area of the Indian Creek

confluence; most spawning occurs upstream of Moab and near to the Green River confluence. Only young-of-the-year and juveniles are known to occupy the Colorado River mainstem in the project area.

Based on further evaluation, the endangered plant Echinocereus engelmannii var. purpureus has been deleted from the list of San Juan County rare plants.

The number of overwintering mule deer in Davis Canyon is based on information supplied by the local offices of the BLM. It is not, however, considered to be crucial winter range, according to the BLM.

Issue

Several commenters suggested that the EA could be improved by including detailed descriptions of habitats and lists of associated species. A determination of relative importance of habitats in the site vicinity should also be included.

Response

The DOE has reevaluated EA Section 3.4.2 and has determined that the original content of the text is adequate. The EA is a summarization of an extensive research effort, which included literature review, consultation with public and private researchers, and reconnaissance level field surveys. The subject reports referenced in the EA contain the descriptive material and species lists requested by the commenters, and are available to the public. The DOE's intention for Section 3.4.2 was to provide an overview description of the ecological resources of the site and vicinity, and the DOE has determined that this objective has been met.

Issue

One commenter requested additional fishery data for Indian Creek near the site and downstream of the site, as well as for Cottonwood Creek and other intermittent drainages in the area.

Response

Unpublished data collected in meetings with the Utah State Division of Wildlife Resources (UDWR) support the statements regarding the lack of fishery resources in intermittent sections of Indian Creek below Donally Canyon. Specifically, these include UDWR stream survey reports for fish surveys performed in 1968 and 1980 in which no fish were reported. Meetings with UDWR biologists have also supported the statements regarding Cottonwood Creek and the intermittent washes tributary to Indian Creek.

Issue

A few commenters questioned the adequacy of the data base for biological resources on which the DOE based its conclusions regarding project effects. More field studies were felt to be necessary.

Response

The DOE conducted a number of field surveys, an extensive literature review, and agency contacts to gather existing and new biological data for Davis Canyon and the alternative transportation corridors. Field surveys were conducted by nationally recognized expert biologists at the Davis Canyon site and immediate vicinity, at proposed geologic test site locations throughout the area, and along the four alternate transportation corridors between Davis Canyon and Moab. Field surveys focused on threatened and endangered species of plants and animals and other important species, such as big game and raptors. They also evaluated the presence of habitats for important species. Key resource agencies in the region were contacted a number of times to collect published, unpublished, and updated information on biological resources for Davis Canyon and the surrounding region including Canyonlands National Park. The results of these activities are reported in Section 3.4.2 of the EA. Although additional field work and information updating are planned, the DOE believes an adequate effort has been made to gather data to evaluate potential effects of repository development on the biota in the area.

Also, the National Park Service in Moab was contacted and meetings were arranged to obtain existing data on bighorn sheep for Canyonlands National Park. Sheep data were also obtained from UDWR-Price and BLM-Moab and Monticello. These data are reported in Section 3.4.2 of the EA.

C.4.1.3.3 Air Quality and Weather

Issue

Several commenters stated that climatological data are inadequate, specifically (1) no onsite representative climatological or air quality data have been obtained, and (2) assessments of the occurrence and magnitude of severe weather phenomena are not provided.

Response

The climatological data contained in Section 3.4.3.2 of the EA are considered adequate to describe regional climatic means and extremes for purposes of environmental assessment. Data have been extracted from official records at Moab, Monticello, The Needles district of Canyonlands National Park, Grand County Airport, and Grand Junction, Colorado. Existing air quality data presented in EA Section 3.4.3 are considered adequate for purposes of

environmental assessment. Data have been extracted from official records at Bullfrog station, Wahweap, and Island-in-the-Sky district.

The DOE used wind and stability class data from records at Salt Wash near Hanksville for assessing environmental impacts of project emissions. These data were used for a recent National Park Service study of pollutant concentration estimates for the proposed Utah Tar Sand Triangle Project (Bowers, et al., 1983, Vol. 1, pp. A-6 through A-11). Salt Wash is located about 70 miles west of the Davis Canyon site. These data are considered adequate for use in assessing environmental impacts of project emissions. Use of these data is considered to represent an improvement over the use of theoretical (worst case) and empirical (Larsen's Method) methods used earlier in Sections 4.2.1.3 and 5.2.5 of the draft EA.

Severe weather information was provided in the draft EA Section 3.4.3.6, including fastest mile wind; maximum 24-hour rainfall, 100-year recurrence; maximum 24-hour snowfall; tornado occurrences, and mean thunderstorm days per year. The DOE has supplemented the discussion of severe weather phenomena in EA Section 3.4.3.3 with information about the mean probability of a tornado striking a point, in any year, in a 1-degree-square area surrounding the site.

C.4.1.3.4 Noise

Issue

Several commenters stated that the background sound-level data are inadequate, specifically (1) sound-level measurements should be made on enough occasions, and at enough locations, to provide a representative sample for the area likely to be affected by the project, (2) octave-band measurements of indigenous sounds are needed to determine audibility of project-related noise, (3) because of the limited sample, quantitative empirical values cited for L_{dn} and L_{eq} cannot be accepted as reliable, and (4) the residual noise level on the L_{dn} scale was calculated incorrectly.

Response

The sound-level data reported in the draft EA were collected to provide a preliminary indication of sound levels in the Paradox Basin area. Data collected recently for the National Park Service (NPS) at several locations within Canyonlands National Park have been reviewed and are referenced in Section 3.4.4 of the EA. These data include a time-history of A-weighted levels exceedance values, and energy equivalent levels for each 10-minute sample. The measured L99 (8-hour) 1/3-octave-band spectra for selected time periods are also included in the data base for six locations and are referenced in the EA as the residual sound level. In addition, these ambient data were taken during a month (December) for which ambient noise levels are historically low due to reduced insect activity and vegetation. The ambient L_{dn} values used include a 10-dB penalty for noise during nighttime hours. This penalty was also employed in calculations of noise levels predicted from project activities.

The DOE believes that these background sound-level data are adequate for purposes of environmental assessment. Moreover, the availability of one-third octave band data has allowed the DOE to assess adverse noise impacts in Sections 4.2.1.6 and 5.2.7 of the EA on the basis of audibility criteria. Although data are for a limited time period, they are representative of what is probably the quietest time in Canyonlands National Park. Noise impact assessments based on these baseline data address the case with greatest impact.

C.4.1.3.5 Aesthetic Resources

Issue

Many commenters felt strongly that Canyonlands National Park is a unique wonder with vast, unspoiled vistas. They feel it is a remote, silent area of awesome pristine beauty, rich in wilderness experiences, dark nights, bright stars, and numerous intangible, spiritual values. Specifically, it was noted that (1) Canyonlands National Park is a Class I Visual Resource Management area, with superlative scenic resources for both day and night visual experience; and (2) baseline data to determine the value of solitude and wilderness experience for visitors to Canyonlands National Park are lacking.

Response

Although the Canyonlands National Park is not classified as a Class I Visual Resources Management area by the Bureau of Land Management (BLM), the DOE acknowledges its superlative scenic resources in EA Section 3.4.5 and believes it should be treated as a Class I Visual Resources Management Area.

The EA is revised to include information on the value of solitude and wilderness experience for visitors to Canyonlands National Park. This information is discussed in Sections 4.4.1 and 5.6.1, and the impact of proposed activities on visitors experience is assessed in Sections 4.4.1 and 5.6.1.

Issue

A few commenters stated that including a map showing the VRM classes for the area would be beneficial. Specifically, it was noted the area should include the repository site, the proposed railroad corridor, and the utility corridor.

Response

A map showing the VRM classes is included in Section 3.4.5 (Figure 3-75). This map covers the area for the repository site, the proposed rail corridor, and the utility corridor.

Issue

A few commenters stated that: (1) Indian Creek Valley, Cottonwood Canyon, Lavender Canyon, Davis Canyon, Harts Draw, and Harts Point should be added to the list of scenic attractions in the vicinity of the candidate site, and (2) the list of areas that may be affected by project activities should be expanded to include Indian Creek Valley, Cottonwood Canyon, Lavender Canyon, Beef Basin, Harts Point, and Lockhart Basin.

Response

1. The list in Section 3.4.5 presents only the major scenic attractions in the area, not all of them. Section 3.4.5 of the EA is modified to clarify this point.

2. Section 3.4.5 of the EA was modified to expand the area that may be affected to include Indian Creek Valley, Cottonwood Canyon, Lavender Canyon, Beef Basin, Harts Point, and Lockhart Basin.

Issue

One commenter suggested adding a statement to Section 3.4.5 indicating that all BLM lands in the area have scenic values and are accessible by the network of four-wheel drive roads that afford viewing access to recreational visitors.

Response

The DOE has added a statement to Section 3.4.5 of the EA to indicate that all BLM lands in the area have scenic values and are accessible by a network of four-wheel drive roads that afford viewing access to recreational visitors.

Issue

One commenter stated that the EA description of federal agency visual assessment systems could be interpreted to imply that the National Park Service (NPS) is unconcerned with the management of scenic value.

Response

The purpose of description of federal agencies visual assessment systems is to describe available systems for visual impact assessment. This, however, was not meant to imply that National Park Service is unconcerned with the management of scenic value of its lands.

C.4.1.3.6 Archaeological, Cultural, and Historical Resources

Issue

Several commenters challenged the completeness and accuracy of the cultural resources baseline data presented in the EA. Several other commenters also expressed the opinion that the actions of the DOE were not in compliance with cultural resource legislation. Specifically, it was noted that (1) fieldwork conducted by the DOE contractors contained "mistakes and omissions" as identified in a 1983 letter to the DOE, (2) cultural resource surveys performed to date have been too limited, (3) the EA fails to recognize a nearby unique prehistoric archaeoastronomical site complex, (4) identification and evaluation of the area's historic properties have not been completed by a professional historian, and (5) the DOE has not identified, or caused to be identified, any National Register of Historic Places (NRHP) or eligible property that is located within the area of potential environmental impact, and that may be affected by the undertaking.

Response

Cultural resource site file search, literature reviews, and field surveys of locations for potential site characterization field activities were conducted by a DOE contractor for the Davis Canyon site. Additionally, a sample-oriented field survey of some 8,500 hectares (21,000 acres) was completed to estimate the nature and distribution of cultural resource sites within the vicinity of the proposed site. In 1983, a letter was received by the DOE from a concerned citizen which pointed out potential inaccuracies in the fieldwork conducted for the sample-oriented area survey. In all but one case, the "errors" were found to be unverified. In the single exception, cultural resources were found not to have been field recorded in a 16-hectare (40-acre) quadrant. This error should not have been made, and additional data did not substantially alter the results of the overall survey.

The archaeological field studies already accomplished are adequate for the EA analyses. In addition, the DOE will enter into a Programmatic Memorandum of Agreement (PMOA) (DOE, 1985) with the Advisory Council on Historical Preservation and the Utah State Historic Preservation Officer. Implementation of this agreement would avoid or satisfactorily mitigate the potential adverse effects on historic and cultural properties.

The archaeoastronomy sites located near the Davis Canyon site were recorded by a vocational archaeologists who assigned an archaeoastronomical function to the ruins. To date, this interpretation has not been substantiated by archaeoastronomers, nor has the site been recommended by the Utah SHPO as eligible for nomination to the National Register of Historic Places.

Historical properties have not been evaluated by a professional historian. The level of studies undertaken by the DOE contractors to date has not called for a professional historian. Implementation of a PMOA will determine the need

for historical, historical archeological, and historical architectural expertise and input.

In order to comply with the requirements of 36 CFR Part 800, the DOE will enter into a Programmatic Memorandum of Agreement with the Advisory Council on Historic Preservation and the Utah State Historic Preservation Officer. Implementation of the stipulations and site-specific subsidiary agreements of the PMOA would avoid or satisfactorily mitigate the potential adverse effects of this project on historic and cultural properties.

Issue

Some commenters recommended specific changes to the text of Section 3.4.6., including more description of the cultural resources significance and abundance, correction of factual errors regarding the number of archaeological sites in and near the Davis Canyon site, and correction of erroneously statements regarding a request for determination of eligibility for the National Register of Historic Places.

Response

Section 3.4.6 was revised to reflect the qualitative significance of the cultural resources of the area by addressing artifacts' preservation, length of human occupation, and the general diversity of resource types. It was also revised to accurately reflect the number of archaeological sites in or near the Davis Canyon site.

The DOE has previously requested information on known National Register of Historic or eligible properties located in the vicinity of each of the sites from the Utah State Historic Preservation Officer (SHPO). Although contacts between the DOE and the Utah SHPO have been initiated regarding the National Register of Historic Places eligibility status of archaeological sites recorded as part of their effort, a formal request for determination of eligibility has not yet been forwarded. Section 3.4.6.2 has been revised to accurately reflect the status of this determination.

C.4.1.3.7 Background Radiation

Issue

A few commenters stated that the background radiation levels presented in Table 3-35 (Dose Equivalent Rates from Background Radiation, Monticello, Utah) are not representative and cited the DOE's Environmental Measurements Laboratory publication (Beck, 1979, EML-362) to support their assertion.

Response

The DOE has examined the recommended reference, and revised Section 3.4.7 of the EA as appropriate.

C.4.1.4 Transportation

This category addresses comments, questions, and concerns on the accuracy or adequacy of the baseline conditions relating to transportation at the Davis Canyon Site. This category corresponds to comments received on Section 3.5 of the EA.

Issue

One commenter expressed concern that the placement of the rail access route along the Colorado River would result in potential closing of the route due to rock slides. It was suggested that the description of transportation systems include a discussion of potential natural hazards.

Response

The effects of natural hazards on transportation, including weather, landslides, and floods, are discussed in Section 6.2.1.8 of the EA. Descriptions of potential hazards can be found in Section 3.2 on geologic properties, Section 3.3.1.4 on flooding, and Section 3.4.3.6 on severe weather. Each of these sections contains a general description of the conditions which may disrupt rail traffic.

Issue

Some commenters indicated that additional details regarding transportation infrastructure needed to be provided in the EA. Information on other regional highways, road widths, functionally obsolete structures, capacity-reducing grades, more detailed and recent road counts, and design capacities is needed.

Response

Section 3.5.1 of the EA has been revised to include additional information as well as the most recent data made available by the Utah Department of Transportation. The expanded discussion includes descriptions of highways from the site north to Interstate 70 and south to Interstate 40. Information about road types, traffic counts, capacity-reducing grades, existing reconstruction needs in the immediate and near term, and lane capacities as made available by the Department of Transportation, is presented.

Issue

A commenter stated that the DOE needs to identify pedestrian traffic on Utah 211 at Newspaper Rock State Historical Monument.

Response

Estimates of visitors to Newspaper Rock State Historical Monument are provided in Section 3.4.1.3.2. An unknown percentage of these visitors will cross Utah 211. Section 4.3.5 has been added to include a proposal to construct a bypass on Utah 211 around Newspaper Rock State Historical Monument. Such a bypass would reduce any impacts associated with pedestrian traffic at the monument and is being considered as an access alternative.

Issue

A commenter noted that lack of baseline data makes it impossible to evaluate potential impacts of transportation routes. EA Section 3.5 only discusses transportation infrastructure. The section should also discuss baseline environmental conditions.

Response

Baseline information on transportation corridors is presented by discipline in Section 3.4. The DOE has reevaluated this section and updated information. The DOE has determined that the data base as presented is sufficient to support the impact assessment for transportation.

Issue

A commenter noted that in the section on utilities (Section 3.5.5 of the EA) a major gas transmission line is not discussed, nor is it identified in Figure 3-80 (Utilities).

Response

A discussion of the gas transmission pipeline has been added to Section 3.5.5. The pipeline is already represented on Figure 3-80 (Utilities) as a dashed line.

Issue

Some commenters identified inaccuracies in the descriptions of area airport information and the need for additional information on these facilities.

Response

EA Section 3.5.3 has been revised to include additional information on area airports. Greater detail was provided on airport facilities and airport services.

C.4.1.5 Socioeconomic Conditions

This category addresses comments, questions, and concerns on the accuracy or adequacy of the baseline socioeconomic conditions at the Davis Canyon site. Because of the large number of comments received in this category and the variety of subjects that this category covers, it has been subdivided into several smaller subcategories: population, economic conditions, community services, social conditions, government and fiscal conditions, and miscellaneous. These subcategories have been selected to be closely aligned to specific sections in Chapter 3 of the EA.

Issues raised by commenters include:

- Baseline data on settlement near the site
- Characteristics of seasonal and permanent residents
- Inadequate concentric zone density analysis
- The economic plight of the Native American population
- Consideration of broader economic regions
- Future economic conditions
- Community services
- Recruitment problems
- Attitudes toward growth and development
- Economic and social history of the area
- Costs associated with bringing local services to an adequate level
- Current and future baseline fiscal conditions.

Issue

Many commenters noted that the draft EA was based on noncurrent socioeconomic data.

Response

The DOE has reevaluated the data and found that revisions to the EA were warranted. The recent suspension of area mining and milling operations has caused local socioeconomic conditions to change in terms of greater housing availability, higher unemployment rates, lower school enrollments, lower per capita incomes, and greater out-migration. The EA has been updated in Section 3.6 in regard to housing, personal income, unemployment rates, school enrollment, and total population information.

Issue

One commenter felt that baseline data on settlements near the site should be provided, as well as data for the communities of Moab, Blanding, and Monticello.

Response

The inclusion of several unincorporated areas in the population data base was considered by the DOE and the following changes were made. Population data on Spanish Valley and La Sal were included in the final EA, Section 3.6.1.4. Data on White Mesa, a Ute community of 300 located several kilometers south of Blanding, is beyond the projected range of in-migrant commuting and is not included.

C.4.1.5.1 Population

Issue

Several commenters suggested that additional information on the characteristics of seasonal and permanent residents should appear in the EA.

Response

The DOE has evaluated the information on population groups and has made the following modification to the final EAs. The EA analysis was revised to include the Native American population living in Blanding, Moab, and Monticello. The discussion of the Native Americans living on the reservation over 160 kilometers away has been retained in Section 3.6.1.4. Sections 4.2.1.6 and 3.6.1.2 were revised to include the nearest residences to the site; including Dugout Ranch, the Outpost, and the National Park Service ranger residences. The EA already includes the number of tourist and nontourist visitors present (Sections 3.4.1.3.3, 3.6.1.4, and 3.6.2.4) and no further modifications were made. This includes visitors to Dead Horse Point, Newspaper Rock State Historical Monument, Wind Whistle Campground, Hatch Point Campground, Needles Overlook, Anticline Overlook, the Island in the Sky, and the Needles districts of Canyonlands National Park, Arches National Park, Natural Bridges, and the total number of tourists present in the travel region.

Issue

Several commenters stated that the baseline population projections should be updated, and the assumptions used to prepare them should appear in the final EA.

Response

The DOE has updated the population projections provided by the State of Utah for Grand and San Juan Counties in Section 3.6.1.3. The assumptions the State of Utah used to make these projections are also included in this section.

Issue

One commenter felt that the concentric zone density analysis was inadequate.

Response

The DOE has evaluated the concentric zone density analysis and concluded that Spanish Valley should be included in the population distribution. Based on the assumptions and procedures used in Waite (1984, BMI/ONWI-541), it was not necessary to include the other small settlements because their inclusion would not change the radiological dose results. Accordingly, the DOE has revised the Figure 3-81 (Population Distribution for Radiological Analysis for Davis Canyon Study Area) to include Spanish Valley.

Issue

A few commenters stated that the EA should not rely on 1980 census of Population data.

Response

The DOE has reevaluated the use of 1980 population data in Section 3.6.1.4 for the study area, and has found that conditions have changed sufficiently since 1980 to warrant updating this information. Therefore, 1984 population estimates were included in Section 3.6.1.4. Population data for 1980 also appears in the final EA because the preclosure guideline analysis for 10 CFR 960.5-2-1 (Population Density and Distribution) requires that decennial census data be used.

C.4.1.5.2 Economic Conditions

Issue

A few commenters thought that additional occupational characteristics of local residents should appear in the EA in order to determine availability of site characterization and repository-related jobs.

Response

The DOE has evaluated the available occupational data and believes that more detailed occupational data are not needed to perform a socioeconomic impact analysis to determine the number of local people who could potentially be hired by the project for repository employment. The population in-migration model documentation (Goldsmith, 1984) has shown that the variables of population size within commuting distance and the size of the labor force in construction and mining would be important in determining the percentage of local hiring. These data are provided in the EA in Section 3.6.

Issue

One commenter felt that the economic plight of the Native American population should be discussed.

Response

The DOE has incorporated information on the relative economic status of Native Americans in Section 3.6.4.

Issue

A few commenters suggested that the EA consider broader economic regions.

Response

The DOE has added information on the regional trade centers that service Grand and San Juan Counties in Section 3.6.2. However, the EA continues to focus upon the economies of Grand and San Juan Counties because they are most likely to be affected by site characterization and repository worker in-migration.

Issue

Many commenters felt that additional information on tourists and their impact on the economy should be considered.

Response

The DOE has reexamined the analyses of the effect of tourism on the local economy and has made some changes to the EA. Information on tourism appeared in Section 4.2.1.11 of the draft EA. Because of confusion on this issue, the information on tourism has been moved to Section 3.6.2.4 in the final EA.

The draft EA noted in Section 3.6.2.4 that, between 1981 and 1983, direct expenditures from tourism increased from 13 to 18 percent of the total gross sales from all sectors. Information on the gross receipts from the river-running industry has been incorporated into the final EA. The attitudes of visitors toward the project are evaluated in EA Section 3.6.4.

Issue

One commenter felt that future economic conditions should be projected.

Response

The DOE has evaluated the data and believes that no modifications are required. Future economic conditions are projected in Section 3.6.2.4. This discussion focuses on tourism and mining.

C.4.1.5.3 Community Services

Issue

A few commenters felt that a discussion of additional capital equipment, facilities capacity and use, programs, number of personnel, caseloads, and planned improvements should appear in the EA.

Response

The DOE has reevaluated the data on capital equipment, facilities, and programs in Section 3.6.3, and has found that the evidence is adequate to meet the requirements of 10 CFR Part 960.3-1-4-2 in order to support the nomination of a site as suitable for characterization.

Issue

Many commenters stated that present baseline information concerning community services appearing in the EA should be updated.

Response

The DOE has evaluated the impact of the recent suspension of area mining activities and concluded that additional data were needed on community services such as housing and schools. This updated information appears in Section 3.6.3 of the EA.

Issue

One commenter suggested that a regional focus should be presented for some services.

Response

The DOE has revised Section 3.6.3.3 for medical services because it was determined that intensive medical care was often sought outside the study area.

Issue

One commenter suggested that more appropriate ratios of service to population should be used in the EA to evaluate the adequacy of local services.

Response

The DOE has supplemented the discussion of local services with the findings from a community attitude survey in which residents of Grand and San Juan Counties evaluated the availability and quality of local services. This information is presented with updated discussions of the quantity of services available in Section 3.6.3.

Issue

One commenter stated that recruitment problems should be noted in the EA.

Response

The DOE has reevaluated the data, and a discussion of the problems of recruiting trained personnel for medical care, especially primary care nurses and physicians, was added to Section 3.6.3.3.

Issue

One commenter felt that community services for additional settlements in the region should be discussed in the EA.

Response

The DOE has reevaluated the community services for unincorporated areas, and believes that no modification of the EA is required. Community services for unincorporated areas are generally provided by the counties or special districts in the counties. Because such services are provided at a county level, they are

evaluated in the baseline discussion from the standpoint of jurisdictional responsibility. Thus, growth in the rural unincorporated areas affects the jurisdiction of service provision. This information is included in Sections 3.6.3.2, 3.6.3.3, and 3.6.3.5 of the EA.

C.4.1.5.4 Social Conditions

Issue

A few commenters suggested that the ability of social service agencies to meet current and future needs of the area population should be discussed.

Response

The DOE has included a discussion of the adequacy of present and future provision of social service in southeastern Utah in Section 3.6.4.3 based on information provided by the Southeastern Utah Association of Local Governments (1980).

Issue

A few commenters felt that attitudes toward growth and development, life-style values, indicators of well-being, and the local crime rate should be addressed in the EA.

Response

The DOE has reviewed the social conditions discussion in the draft EA and determined that further data on attitudes toward growth, local lifestyles, and social problems should be provided. Therefore, the DOE has added a discussion of attitudes toward growth and development based on an attitude survey prepared by the Southeastern Utah Association of Local Governments (1980). Results of Park visitor attitudes toward the project and local resident attitudes have been included based on published reports. An expanded discussion of local lifestyle and social problems has also been incorporated based on information prepared by Burnett (1980). This information appears in Section 3.6.4.

Issue

One commenter stated that the EA should describe the economic and social history of the area in more detail.

Response

The DOE has added a discussion of the social and economic history of the study area to Section 3.6.4.

C.4.1.5.5 Government and Fiscal Conditions

Issue

One commenter stated that a discussion of capacities for planning, and intergovernmental agencies with responsibilities in the study area, should appear in the EA.

Response

Baseline information on area planning and intergovernmental agencies appears in the Socioeconomic Data Base Report for the Paradox Basin, Utah (BGI, 1984, ONWI-471). The DOE believes no modification to Section 3.6.5.2 of the EA is necessary. However, additional text has been added to Section 5.4.5.2, which states that additional technical expertise and additional staff in the local government, including those of planning and intergovernmental agencies with responsibility in the area, will be required.

Issue

One commenter stated that costs associated with bringing local services to an adequate level should be addressed in the EA.

Response

The DOE has evaluated the data to assess impacts and has determined that the level of information is sufficient for the assessment. No modification of the EA is required.

Issue

One commenter suggested that current and future baseline fiscal conditions and constraints should be addressed.

Response

The DOE has evaluated the available data and has revised the EA as suggested. The socioeconomic data base (BGI, 1984, ONWI-471) discusses bonding indebtedness and other fiscal constraints. This information has been included in Section 3.6.5.1 of the final EA.

Issue

One commenter felt that local road construction, emergency response equipment, and training costs should be discussed.

Response

The DOE has evaluated the data in the EA, and believes no modifications are required. These costs are considered as part of the public health and safety and roadway expenditures. They are described in Section 3.6.5.1 as the largest classes of expenditures for all jurisdictions.

C.4.2 ACTIVITIES PROPOSED FOR SITE CHARACTERIZATION

This category addresses comments, questions, and concerns received on the site characterization activities discussed in Section 4.1 of the Davis Canyon site EA. Because of the large number of comments received in this category and the variety of subjects that this category covers, it has been subdivided into several smaller subcategories: field activities, exploratory shaft, other activities, and alternative activities. These subcategories have been selected to be closely aligned to specific sections of Chapter 4 of the EA.

Issues raised by the commenters include:

- Field studies
- More information about the planned field program locations
- Clarification of the sequence of field work activities
- Inconsistency in work-force numbers
- More detailed topographic maps
- Alternative salt disposal scenarios
- Concern about the ambitious nature of the ESF schedule
- Methodology and materials to be employed in the access road
- Potential impacts from the development of the access road
- Person-per-vehicle factors
- Shaft construction methods
- Worker health and safety analysis
- Reclamation plan
- Impacts to the towns of Blanding, Monticello, and Moab
- The timing of the environmental field studies
- Inadequate environmental characterization plans.

C.4.2.1 Field Studies

Issue

Numerous commenters felt that exclusion of field activities from Canyonlands National Park would restrict field investigations in such a way that they may be inadequate to characterize the site, especially with regard to hydrology.

Response

The field studies which the DOE has presented in Section 4.1.1 constitute a basic program and provide a basis for evaluating the environmental impacts of site characterization. The program is based on the DOE's current understanding of data needs, facility locations, and regulatory requirements.

The proposed programs outlined in Section 4.1.1 for drilling, testing, and monitoring are expected to adequately characterize the hydraulic properties and ground water flow paths between the site and the National Park (the downgradient direction of flow). Characterization of the ground water system by drilling in the Park is not expected to be necessary because the ground water velocities are expected to be extremely slow as is described in EA Section 6.3.1.1, and regulatory requirements pertaining to ground water travel are expected to be met within a controlled zone excluding the Park.

Issue

Several commenters wanted more specific information about the planned field program including locations, types of testing to be performed in the field and on samples, test procedures and their limitations, disposition of wells after tests, and disposal of saline water produced during drilling.

Response

EA Section 4.1.1 describes locations and details of testing to the extent necessary for their impacts to be evaluated. Detailed descriptions of the field activities locations, testing specifications, and test procedures for the field program rationale will be presented in the site characterization plan (SCP).

Following their use for site studies (which includes long-term monitoring), wells will be plugged according to pertinent regulations. Disposal of saline water is discussed in EA Section 4.2.1.4.

Issue

Two commenters asked for clarification of the sequence of field work activities and suggested a specific sequence for some of the activities (geophysical surveys, boreholes, shaft).

Response

The field work schedule presented in EA Section 4.1.1 has been augmented to clearly show the sequence of activities, and suggested changes in the sequence of activities have been considered. Some geophysical surveys precede the start of borehole drilling, and results will be used in siting boreholes. Information from early boreholes (especially engineering design boreholes (EDBH) and shaft monitoring wells) will be analyzed for use in the exploratory shaft design.

Issue

Several commenters suggested additional activities be conducted (i.e., joint mapping, additional seismic lines, studies in Lockhart Basin and other grabens related to Shay Graben) or alternative procedures (i.e., larger holes, different seismic survey methods) be used for the field activities.

Response

Alternative procedures and additional investigations suggested by commenters have been considered by the DOE. Additional seismic lines have been incorporated into EA Section 4.1.1 and geologic mapping of joints is included. The EA presents a characterization program based on currently understood data needs and regulatory requirements. As the program advances, the field program may be modified to reflect changing requirements.

Issue

One commenter noted an inconsistency in work-force numbers.

Response

The DOE has removed the inconsistency in work force numbers and modified the EA text accordingly.

Issue

One commenter requested detailed topographic maps.

Response

Detailed topographic maps (Olympus Aerial Surveys, Inc., 1984) of the site and surrounding area do exist, and are available to the public in EA reference libraries. Maps of this scale could not be printed with the EA. The maps used in the EAs are adequate for the discussions presented.

C.4.2.2 Exploratory Shaft

Issue

Commenters were primarily concerned with alternative salt disposal scenarios, and their associated impacts, and the methodology that will be employed to control blowing salt that is stored onsite. Concerns regarding disposal options included the availability of sufficient water to mix with the salt to form a brine and the potential impact from the subsurface injection of the brine. Concern was also expressed regarding the availability of an adequate sanitary landfill to accept the waste salt, the location of the salt storage piles onsite, and the quantities of salt and related materials to be excavated.

Response

The mined salt pile will be exposed to local weather conditions and, as a result of this exposure, a hard surface crust will form over the pile. According to the experience of the salt industry, stockpiled salt is not a major source of wind-blown particles since crusting begins to form in a few hours, either through saturation by rain water or deliberate wetting. If necessary, the build-up of the salt pile can be interrupted during high wind conditions to further prevent fugitive emissions.

The salt particle size distribution of the salt produced at the ESF will be similar to the particle size distribution of any salt mine using continuous miners for excavation. Though ESF mining operations may produce particles ranging from dust to boulder size, the DOE's proposed practice of wetting the salt during unloading, spreading and compacting, and the formation of crusting is expected to control fugitive salt emissions.

The DOE has reexamined the EA Sections 4.1.2.6 and 4.3.4.2 and concluded that the quantitative and qualitative description of salt disposal options presented in these sections are adequate. The DOE has tentatively selected salt disposal in existing permitted facilities. Section 4.1.2.6 of the EA establishes the fact that existing disposal facilities are available to the DOE for disposal of residual ESF waste. A survey was conducted of the disposal facilities permitted to accept wastes of the type and quantity expected to be generated by the ESF. At least two sanitary landfills and one hazardous waste landfill are currently available for disposal of salt and salt contaminated material generated from the ESF. The DOE believes that the disposal options presented in Section 4.1.2.6 are feasible.

Waste quantities, number of loads, and frequency of disposal have also been estimated assuming the use of existing disposal facilities. The quantitative data pertaining to salt disposal apply to the options presented in Section 4.3.4.2. The advantages and disadvantages identified for each option broadly reflect the relative suitability of each option.

The estimated volume of excavated material is a function of the size of the openings, assumed overbreak, and bulking factor. The volume of salt material was increased for conservative sizing of the storage area to allow for uncertainty due to the preliminary nature of the ESF designs.

Section 4.1.2.6 provides details of the quantity of waste to be disposed by type of waste and identifies a location which accepts and has the capacity to handle that particular waste. It is a common practice that the disposal facilities require documentation of the chemical and physical composition of the waste, timing and rate of delivery, and total volumes. A decision on selection of disposal facilities for the various types of waste will be made during site characterization phase of the program.

The materials that will be transported can be contained and cleaned-up relatively easily if a traffic accident occurs. The nature of the material is such that long term adverse effects will not persist after cleanup. Proper loading and protection of the load from wind during transport will minimize adverse effects from routine operation.

Review of 40 CFR 261.30 to 261.33 does not indicate that salt is a material subject to Subtitle C of the Resource Conservation and Recovery Act (RCRA). Contact with federal, state, and other agencies during ESF project planning confirmed that residual salt and salt contaminated material will be considered a non-hazardous industrial solid waste. Those having jurisdiction over the facilities referred to in Section 4.1.3 indicate that current permit conditions, site characteristics, and management techniques will provide for adequate disposal of salt and salt contaminated material.

The EA has stated that deep ground water resources in the Davis Canyon area are extremely limited in both quantity and quality. Small quantities are available offsite in the Jurassic Glen Canyon Group, which is shallow, and from the deeper Permian Cedar Mesa Sandstone and Elephant Canyon Formation, that are onsite.

Surface resources can produce a large amount of water in this area. However, through various laws and compacts governing use of the Colorado River and its tributaries, only a specified amount of surface water is available for development in this region. Current use is estimated to be low but future demands are expected to increase.

A reasonable water supply scenario in the brine injection alternative for waste disposal is to use both ground and surface water resources. However, the amount of water used for the injection alternative may impact regional ground and surface water resources.

Issue

Commenters were concerned that the site layout as presented in the EA promoted the contamination of "noncontaminated" drill cuttings by salt from the storage pile or from the contaminated drill cuttings pile. Comments regarding

topsoil stripping in the event a clay liner is not used, the size and life expectancy of the evaporation and retention ponds, and the frequency of disposal of liquids into the ponds were also received. Commenters also expressed concern about the ability of the DOE to properly prepare the site in the absence of onsite soils data, the necessity for a system to monitor the underground storage tanks, the amount of water available for fire protection, and the potential discharge of sanitary wastewater to surface water systems.

Response

The conventional mining construction method has been selected for the two 12-foot exploratory shafts which differs from the drilling method identified in the draft EA. Drill cuttings are not produced as a result of the conventional mining technique. Storage and disposal of excavated materials is discussed in Section 4.1.2 of the EA.

The DOE has reexamined the size of the site, site configuration, and the location of the ESF with respect to the surrounding region and has revised the section to reflect the current design and approach. Location of the ESF along with site acreages have been checked for consistency throughout the EA.

Topsoil will be removed and stockpiled from all areas before grading. This includes the salt storage area where such action will be taken regardless of the type of liner to be used.

The evaporation and retention pond has been sized to contain runoff from a 500-year, 24-hour storm falling on the salt and potential salt-contaminated areas. To supplement this, additional freeboard has been provided. Storms of lesser duration will produce less total runoff. However, higher peak flows will result due to their short duration. Because of this, drainage conveyance structures have been designed based on 500-year storms of duration related to the time of concentration in the local watershed. As the time of concentration (length) of the water course increases, the intensity decreases and, thus, the maximum rate of runoff occurs when all parts of the drainage area are contributing to the flow at the point of discharge; in this case, the evaporation and retention pond.

The residue in the pond will accumulate as the dissolved salts reach saturation levels during the evaporation cycle. Disposal frequency is not predictable because it depends on the initial salt concentration in the fluid and the rate of evaporation. This also applies to the sediment retention pond solids which accumulate during rainfall events. These solids will decrease as the area is reseeded as construction progresses.

The U.S. Soil Conservation Service defines a temporary basin as one which will be removed within 36 months after construction. A basin used longer than 36 months, even if its use is as a runoff monitoring pond after 36 months, is a permanent sediment basin. Based on this definition, the evaporation and retention pond will be a permanent structure. The pond had been referred to as "temporary" because it will be used during construction to contain runoff and control its discharge.

The retention criteria for the sediment basin is derived from U.S. Soil Conservation Service criteria for drainage areas of similar size. The retention time required in the pond cannot be specified at this time but will be a function of several variables needed for design, such as grain size distribution of the sediment, suspended solids concentration, etc. To meet the applicable state and federal water quality standards for solids concentration, the efficiency of sediment removal may be increased by baffles, partitioning, inlet energy dissipator, coagulants, or a siphon-type riser and spillway, if required. Additional analyses will be completed before the final configuration is designed. A formal program to characterize site surface and subsurface soils will be completed before site preparation work is initiated. Such programs typically include an analysis of published soils data, typically from the U.S. Soil Conservation Service, and analyses of both the chemical and physical properties of the soils. This information will not only be used by the construction contractor in the development of an optimum plan to prepare the site, but will also be used to produce an acceptable reclamation plan.

The DOE will comply with all applicable regulations pertaining to underground storage tanks that are in place at the time the tanks are installed. The tanks can also be installed above ground surrounded by a berm, rather than placing them underground as currently configured.

The fire protection system will be sized for a two-hour supply of water. The piping system for fire water will be laid out in loops so that water can be diverted to the area in need.

Effluent from the wastewater treatment facility will undergo tertiary treatment consisting of duplex dual media gravity filters. Such treatment will reduce effluent suspended solids. Any liquid discharge to surface systems will meet the maximum permissible levels for such discharge.

Issue

Commenters expressed concern about the ambitious nature of the ESF schedule. Concern was expressed that the schedule allowed no time for contingencies and that important testing would be rushed or deleted and that, ultimately, the repository would not be developed on schedule.

Response

The DOE believes that the schedule presented in EA Section 4.1 is achievable and compatible with completion of a repository according to the timetable set forth in the Nuclear Waste Policy Act and that all schedule activities can be completed as shown in the EA without cancelling or shortening any required testing programs.

Issue

Commenters were concerned about the methodology and materials to be employed to construct the access road, the potential impacts from the development of the access road and the mitigation measures that will be used to minimize any impacts. Concerns for the reclamation of the access road were also expressed.

Response

The specific alignment and grade of the ESF access road have not been fully defined at this phase of design. Several access corridors to the site have undergone a preliminary feasibility analysis to determine the extent of stream bed modifications to the Davis Canyon tributary to Indian Creek that would be required. The current preliminary alignment of the access road as presented in Section 4.1.2.2.1 of the EA, is located along the northwestern bank of the Davis Canyon tributary and requires only one stream bed crossing and drainage structure. This alignment will be evaluated further during the final design phase.

The steps required to prepare the access road right-of-way and construct the road are similar to those employed in the construction of any two-lane rural highway. In general, the steps are:

- Ground Survey: establish baseline, bench marks, right-of-way and clearing limits
- Clear Right-of-Way
- Ground Survey: establish grade stakes for cut and fill areas
- Earthwork: excavation, embankment, compaction
- Application, grading and compaction of flexible base and pavement.

Provisions to minimize erosion and siltation during access road construction may require the use of sediment basins, jute mesh, straw bales, etc. The specific provisions required are generally part of the construction specifications and are implemented according to the construction procedures being employed on the project. Embankment and base materials are utilized as much as is practicable from materials excavated on the project. The amount of materials is minimized by a road profile that is flattened and rounded to blend with the existing topography as much as possible and still be consistent with the roadway design classification. The specific quantity, type and source of borrow materials will be evaluated as part of the access road design. It is assumed that existing roads within the area are to be constructed of locally available materials and that these same sources would be a source for ESF access road construction materials.

Access for geological and environmental field studies will be provided to the maximum extent possible by existing roads and trails. Roads constructed

during this phase would be subject to the same reclamation process as the site access road.

Issue

Commenters questioned the person-per-vehicle factors presented in Section 4.1.2.2.1 of the EA. Concerns were expressed that unless traffic projection figures were consistent and accurate, traffic impacts to local communities could not be properly addressed. Comments were also received regarding the transportation impacts from offsite waste disposal.

Response

Vehicle occupancy during construction of the ESF assumes that onsite personnel would not be likely to form extensive carpools because (1) the mix of crafts will change as various construction phases are accomplished and (2) the broad area from which labor will be attracted. The use of a person per vehicle ratio of slightly more than one reflects the fact that the tenure of some personnel, such as those involved in site maintenance, security, and other activities that will continue throughout most of the construction and testing period, may share rides. To the extent ride sharing occurs at a greater rate, the traffic impacts will be less than those considered in the EA.

Issue

Commenters had questions on the shaft construction methods and how the construction methods will affect seal placement. It was suggested that the rationale for selecting the proposed construction methods be presented in the final EA. Comments were also received regarding the mud pit and the use of the steel liner.

Response

The DOE has revised the Section 4.1.2 of the EA to reflect the recent design changes concerning the shaft construction techniques and the shaft diameters. The EA text and tables of Chapter 4 have been revised two 12-foot-diameter conventionally mined shafts (ONWI, 1985).

Subsequent to the release of the draft EA, the DOE revised its plans for exploratory shaft construction from large hole drilling to conventional mining. This revision in plans was based on several considerations:

- Worker safety
- Flexibility to expand subsurface areas to collect additional stratigraphy information

- Demonstration of the freezing technology to be used to construct larger repository shafts

- Ability to prepare detailed shaft maps of stratigraphy which will guide repository shaft-sealing design,

- Lower cost, enhanced construction schedule.

Section 4.1.2 has been revised to reflect the new shaft construction plans. Since the large hole drilling is no longer being used, the need for mud pits and heavy steel liners no longer exists.

Issue

Commenters were concerned that the worker health and safety analyses were not consistent between the EAs. Additional comments dealt with the inadequacy of the input used to calculate the potential for injuries and fatalities, and the different sources of input data used to prepare the EAs. Commenters were also concerned about the response time necessary to treat injured personnel and the ability of the local communities to respond to medical emergencies.

Response

The DOE agrees that different sources of predicting accident rates have been used in the EAs, however, the projections of fatalities, accident rates, etc., are consistent between EAs. The DOE has reexamined the sources of predicting accident rates and found that there is a direct correlation between the various sources.

From 1930 through 1977, MSHA's statistical measures for injuries experienced in mining, used a basis which was somewhat different from the other industries. However, beginning with calendar year 1978, MSHA adopted measures for injury experience which compare closely with the measures used in the Office of Occupational Safety and Health Statistics, Bureau of Labor Statistics, and the U.S. Department of Labor. Therefore, beginning with 1978 data, the mining industry can be compared on a standard basis with other U.S. industries.

MSHA requires all mine owners to report all accidents to the District Office on a prescribed form. Because of the modification in reporting and processing procedures that became effective January 1, 1978, injury rates as currently computed are not precisely comparable to those of the previous years. Fatality rates, however, in which the "incidence rate" (the term used after 1977) is one-fifth of the "frequency rate" (the term used before 1978) for otherwise similar grouping, remain comparable.

The statistical data in MSHA's report cover the work experience of all personnel engaged in exploration, development, production, maintenance, repair, and construction work, including supervisory and technical personnel, and onsite office workers. These activities cover the entire spectrum of the ESF activi-

ties and, as such, are a better tool for statistical projection of probable ESF injury experience. As compared to the reported accidents used in MSHA's report, the National Safety Council uses sampling techniques for projections of probable injury experience. The terminology used in MSHA reports is that generally used by the mineral extraction industries. The classification and extent of industries is in close general agreement with the Standard Industrial Classification.

The DOE has reexamined Section 4.1.2.2.2 of the EA, addressing the applicability of MSHA regulations and concluded that the text adequately addresses the issue.

Medical facilities will be available onsite to treat most injuries. However, if onsite treatment is impractical or unavailable, workers will be taken to the nearest city where the proper facilities are available to treat the particular injury. If the injury is life threatening, helicopter transport is expected to be available. Furthermore, the DOE expects to brief personnel at the hospital in the nearly cities as to the type of materials that will be onsite, the type of work that will be done, and the kinds of injuries that may occur.

Issue

Commenters were concerned that drifting was not planned to characterize the repository storage area. Concern was also expressed that the proposed distance between the mineby drift and the instrumented drifts is too small to obtain accurate observations, and that some nuclear waste materials will be stored onsite during the testing phase. Also, comments were received stating that the present ESF and repository designs are not suitable for gassy mine conditions.

Response

The Nuclear Waste Policy Act clearly states that the Secretary (of Energy) may not use any radioactive material at a candidate site unless NRC concurs that such use is necessary to provide data for the preparation of environmental reports and an application for a construction authorization. Tests utilizing actual HLW are not considered necessary to support the license of application for a salt repository.

Confirmation of the thickness and extent of the host rock will be accomplished through an extensive surface borehole drilling program and a variety of geophysical methods, such as seismic surveys. This program is detailed in Section 4.1.1 of the EA. Also, horizontal boreholes from the subsurface will provide additional data.

The DOE has revised the appropriate sections of Chapter 4 of the EA to reflect the recent design changes concerning the shaft construction techniques and the shaft diameters. The EA text and tables of Chapter 4 are based on two 3.6-meter (12-foot) finished diameter, conventionally mined shafts (ONWI recommendation on relating to ESF shafts, 1985).

The present ESF design demonstrates that the MSHA requirement for gassy mine conditions in that two separate escapeways be maintained from the operating level to surface can be met.

Since the radius of the shaft pillar is roughly equal to the depth of the workings, the ESF workings will be in the shaft pillar area. Excavation in this pillar area will be kept to an absolute minimum in order to preserve the integrity of the shafts.

The location of the mineby drift with respect to the instrumentation drifts has been determined considering both the optimization of data collection and construction feasibility. The DOE believes that the test layouts presented in Section 4.1.2.3 of the EA will yield required data.

Issue

Commenters were concerned with the adequacy of the reclamation plan presented in the draft EA, time required to revegetate the site, the techniques which will be used to successfully accomplish revegetation, and the final disposition of the pond liner. It was also expressed that the DOE does not understand the requirements for successful desert revegetation. Commenters also requested that sufficient baseline soils data be available to permit the proper distribution of topsoil when reclamation is initiated.

Response

The reclamation schedule presented in Section 4.1.2.4.1 of the EA refers to the amount of time required to complete the tasks which will comprise the reclamation program. The schedule does not show the period of time necessary for the revegetation species to become successfully established. This amount of time cannot be accurately estimated until a final reclamation plan has been developed. As noted in Section 4.1.2.4.1, monitoring of the revegetation effort will continue after the site has been revegetated.

The DOE will restore the ESF site to its original condition and will work closely with the federal and state agencies with jurisdiction over the site to ensure that all reclamation activities are satisfactorily accomplished. The DOE will submit the reclamation plans to the agencies at such time as these plans become available.

The reclamation plan will include detailed engineering plans, topsoil requirements, equipment specifications and the type and quantity of plant species that will be sown. The plan will also specify the optimum periods to initiate the revegetation effort and the methods to be used to control erosion until the new vegetation becomes established.

Issue

Commenters were concerned about the impacts to the towns of Blanding, Monticello, and Moab from water use on the site. Questions were also received regarding the proposed use of onsite wells.

Response

At present, the Spanish Valley Water and Sewer Improvement District serves an area outside of Moab. The District and the City of Moab have made arrangements to provide water and wastewater treatment services jointly. In 1985, Moab will purchase water from the George White Well No. 4 in Spanish Valley.

If current plans to upgrade the water system in Moab and Monticello are completed, there should be sufficient water available to accommodate the baseline population in 1994 and 2006. There will be an excess capacity available in all cities after baseline needs are met.

Preliminary information indicates that insufficient ground water exists at the site to satisfy the exploratory shaft facility water demand. Additional information will be obtained during the site characterization phase and should the data show an adequate ground water supply, the option of utilizing groundwater will be reevaluated.

C.4.2.3 Other Activities

Issue

An issue raised by many commenters is the timing of environmental (nondisturbing) field studies prior to the conduct of the disruptive site characterization activities. Implicit in these comments is the desire to have another decision point, another review of site characterization impacts, based on detailed site-specific data, prior to conducting the disruptive site characterization activities. Commenters add that one year of baseline study of hydrology, air quality, and meteorology, and ecosystems is required prior to any site disturbance. One commenter believes a one-year study meteorology is inadequate.

Response

The environmental assessment addresses the impacts of site characterization and is required to accompany the nomination of each site as suitable for characterization (NWPA, Section 112[b][1][E]). In the environmental assessment, the DOE evaluation of the site against the siting guidelines concludes that the site is not disqualified by probable environmental, socioeconomic, or transportation impacts expected during site characterization or during repository construction, operation, or closure. This evaluation was made with regional data amended by site-specific knowledge.

The DOE has revised EA Section 4.1 to clarify the scheduled relationships between the environmental, socioeconomic, geotechnical, and exploratory shaft activities. In this revision, there are demonstrated periods of time to collect environmental and socioeconomic data, in advance of activities that would significantly disrupt the environment. These collected data, and appropriate analyses, would be provided to the appropriate Federal and State regulatory agencies.

Issue

Many commenters stated that the EA presents site environmental characterization plans which are inadequate because they do not provide for an adequate gathering of baseline data, adequate monitoring of site characterization impacts, or evaluation of the significance of impacts on park visitors. Comments were concerned with the following: a more extensive noise monitoring program, with monitoring sites located in the Canyonlands National Park, development of vegetative studies for a reclamation plan, elaboration on timing of installing a meteorological tower, examination of the range and prey species abundance for the peregrine falcon, compliance with the National Historic Preservation Act, evaluation of park user responses, extension of the transportation impacts evaluations, inclusion of the study of wind erosion as a potential hindrance to restoration, and identification of the socioeconomic impact model.

Response

The DOE believes that the EA should present environmental site characterization plans at a level that is sufficient to indicate the types of activities planned and the level of impacts that will probably accrue to the environment. Sections 4.1.1 and 4.1.3 of the EA have been revised to provide additional clarity and specificity.

Detailed plans for the conduct of environmental and socioeconomic field work will be developed. These plans will include consideration of noise monitoring in Canyonlands, reclamation plans which include test plots to prove the plans will be adequate, and wind erosion. Socioeconomic models to be used is the Socioeconomic Assessment Model have been derived specifically for this project and are being extensively reviewed. The detailed field plans will be published before they are implemented.

Issue

Some commenters stated that the description of land access requirements is incomplete, because potential interferences of the site characterization activities with Canyonlands National Park access and use are not identified. Specific questions were raised concerning possible restrictions of park access across the control zone of the site, and about ownership and use conflicts with mining claims.

Response

During site characterization, the DOE activities would not prohibit access to the park, and EA Section 4.1.3.3 has been revised to provide that clarification. The DOE has evaluated the mineral potential at the site as low. Any mining claims would need to be terminated or placed in abeyance during site characterization. If the site were selected for a repository, affected claims may have to be terminated.

C.4.3 THE REPOSITORY

This category addresses comments, questions, and concerns on the design, construction, operation, and decommissioning of a repository at the Davis Canyon site. This category corresponds to comments received on Section 5.1 of the EA.

Issues raised by the commenters include:

- Lack of site-specific repository information
- Lack of sufficient flexibility at the potential repository
- Use of artificial support systems
- Uncertainties regarding the existence of major inclusions
- Inconsistencies with regard to waste packaging
- The construction period
- The number and sizes of repository shafts
- Shaft design
- Shaft sealing
- Location of the proposed repository within the floodplain
- Impact of the repository on the ecosystem
- Treatment and disposal of repository-generated wastes
- Containment of gaseous hydrocarbons in the repository
- Disposal of excess salt.

Issue

One commenter stated that lack of repository site-specific information should not impede the site selection process at this stage, and salt disposal alternatives should be presented.

Response

The DOE has agreed with the commenter and reexamined the EA sections containing site-specific geological and engineering data and concluded that the basic approach used in the EA is sufficient for developing and quantifying the physical construction requirements of the facility such as the location, size, capacity, and functional requirements and therefore no modifications to the EA sections are required.

A specific objective of the EA section that discusses salt disposal alternatives is to demonstrate that at least one alternative was available and feasible. Several alternatives were also developed to determine the potential environmental impacts that would be associated with the handling, storage and disposal of salt. No modifications have been made to the EA in response to this comment.

Issue

One commenter is concerned with lack of sufficient flexibility at the potential repository site which could be impaired due to the presence of dissolution zones, carnallite and anhydrite layers, and brine pockets. The commenter is also concerned with the extent of disturbed zones, which could reduce potential available area for the "alternative repository design concept" since analysis on the presence of heterogeneities, thermomechanical, and thermohydrologic conditions have not been conducted for the potential repository site.

Response

Issues such as the potential to encounter anomalous zones during repository development will be studied further during the site characterization phase.

Site exploration activities indicate that the Paradox Formation is laterally extensive and that the minimum thickness of salt within the site boundaries is approximately 55 meters (180 feet), see Section 6.3.3.2.1. Therefore, the host rock allows considerable flexibility to avoid anomalous zones, if encountered. In addition, there are design alternatives that could be used to accommodate the presence of anomalous geologic features if they are not extensive.

Chapter 5 has been modified to include a new Table 5-1 which presents a comparison of two repository concepts, along with estimates of changes in impacts due to concept differences, and suggested mitigation measures. The purpose is to present an understanding that the repository designs are still evolving, illustrate differences which would occur as the design process matures, and highlight differing impacts which follow changes in design approach.

Issue

A commenter questioned the ability to use Exploratory Shaft Facility (ESF) data for repository design due to the large distance between the ESF and the closest waste panel.

Response

The DOE believes that the basic premise to use the ESF as stated in the EA is sound.

The DOE recognizes that the potential for anomalies exists for this site (as for any site). The use of lateral exploratory boreholes is currently proposed for detection of anomalies such as gas pockets in advance of the excavation of the underground drifts. This approach is standard practice for mining operations.

The DOE believes that no modification to the EA is necessary.

Issue

The commenter is concerned with usage of artificial support systems which will be required for ground support in the repository during repository operation and retrieval periods. The following issues are raised by the commenter:

- The effects of temperature on the roof and rib failures (slaking, spalling) and the resulting support requirement
- The effects of heterogeneities (brine, gas pockets, carnallite and clay seams, anhydrite, etc.)
- The results of thermomechanical analysis of salt/grout/bolt for evaluation of rock bolt performance
- The effect of thermal loading on the room and bolts due to canister emplacement after a year without backfilling the rooms
- The effect of thermal loading on ventilation of the repository in canistered rooms.

Response

Ground support of the repository would be impacted by gradual thermal loading during operation and retrieval periods. The DOE believes that artificial support of the repository during excavation and operation is routinely practiced in the evaporite mines, and is applicable to repositories. Artificial support during the retrieval phase is also possible if sufficient cooling of repository rooms prior to initiation of retrievability activities is used. During detailed design of the repository detailed specific design features will be developed as a result of information that becomes available through site characterization activities (Section 4.1.2).

Regarding the thermal loading on roof, ribs, heterogeneities, and salt/grout/bolting, specific information will be obtained as part of the construction of the exploratory shaft and the underground test program discussed in Section 4.1.2 of the EA. This information will be used in the final design of the repository.

Regarding the effects of thermal loading on the room and bolts due to canister emplacement, the DOE will conduct thermomechanical studies as part of the

repository design process to study this phenomena as well as the effect of thermal loading on repository ventilation. This is discussed in Section 4.1.2 of the EA.

Regarding the issue of retrievability of canisters from thermally loaded environment, the DOE believes that cooling of the repository is feasible, but will require additional investigation on the ventilation aspects of the repository, both during the design process and as a part of exploratory shaft construction and the underground test program.

No change in the EA is required.

Issue

One commenter stated that the EA is inadequate with regard to underground operations, specifically, uncertainties associated with lack of subsurface geologic data of the repository in the following areas:

- The suitability of the site due to the lack of adequate subsurface geologic data prior to emplacement operations
- The initial development of the repository for the emplacement of waste is interpreted to take one year
- The demonstration of retrievability at the site.

Response

The proposed repository development plan and emplacement scheme is not finalized and is subject to refinement or modification as additional site-specific geologic information becomes available. In addition, prior to finalization of design scheduling and an emplacement scheme selection, additional investigations will be carried out as part of site characterization.

Since additional site-specific field exploration programs will be carried out continually, existing geologic subsurface data will be updated. This work includes detailed site exploration from ESF underground exploration and testing.

The DOE has reexamined the EA with regard to internal development duration and underground operations and notes that there was 42 months of exploration activity during shaft pillar and mine development stages.

Concern with the demonstration of retrievability at the proposed site is valid. Prior to demonstration of retrievability at a repository site, proof of principle will be developed and demonstrated so that risks associated in dealing with retrievability techniques will be minimized with regard to safety and stability. This will take place prior to NRC granting a license.

Section 5.1 has been revised in the EA to discuss the retrievability issue in more detail.

Issue

Several commenters were concerned that the uncertainties regarding the existence of major inclusions, anomalous zones, etc., within the salt bed have been considered in determining that the Paradox Formation is laterally extensive and has adequate thickness to support a repository. A further concern is that the two phase concept has not been considered in assessing this finding.

Response

Major heterogeneities in the host rock mass, if encountered, could affect vertical and lateral placement of the repository location within the Cycle 6 salt. As stated in the EA, anomalous zones by definition are abnormal occurrences; there is no evidence to support a contention that a major anomalous zone exists at the repository horizon. The site characterization activities discussed in Section 4.1 of the EA are structured to gain additional information about both the surface and subsurface site geology. The successful completion of these characterization activities will minimize any likelihood that an anomalous zone could be encountered during repository development.

Current mining practice includes methods to detect anomalous zones such as brine pockets. One technique, as an example, is to drill horizontal exploratory boreholes ahead of the working face to locate such anomalies.

Because the two phase concept occupies a larger area than the reference concept, there exists a slightly higher probability that an anomalous zone could be encountered with the two phase design.

The DOE believes that no modification of the EAs is required.

Issue

Several commenters stated that the draft EA inadequately addressed the impacts which would result from consideration of a larger, more complex, two-phase repository concept. Criticism was also expressed concerning the lack of detail presented on the two-phase concept itself. Of specific concern were:

- Lack of justifying the basis for assuming nongassy conditions for the reference concept and gassy conditions for the two-phase concept
- Impacts on the host rock due to the large size and greater extraction ratio of the two-phase concept
- Impacts of increased ventilation requirements on the high-efficiency particulate air (HEPA) filter system

- Concerns about incorporation of the exploratory shaft facility (ESF) into the repository from the viewpoint of sealing of the ESF shafts
- Differences in salt handling procedures, salt quantities, and salt pile size
- Changes in site characterization activities due to increased areas for the surface and underground activities
- Differences in retrieval requirements for the two-phase concept
- Concerns about the effects of simultaneous repository development and waste emplacement operations on safety
- Changes in size of the restricted area (and encroachment on Canyonlands National Park)
- Differences in the thermomechanical response of the two-phase design
- Differences in construction and operational scenarios which impact socioeconomic considerations
- Difference in aesthetic impacts for the two-phase concept.

Response

The DOE has examined the draft EA in regard to the commenter's concerns about the two-phase concept, and although the concerns expressed are generally valid, the EAs are not intended to address in detail all issues pertaining to repository designs, particularly since these designs are still evolving and are currently in their infancy. The DOE further believes that the reference design is reasonably representative of what a repository may look like at each site and, as such, is adequate to meet the requirements of 10 CFR 960.3-1-4-2 to support the nomination of a site as suitable for characterization.

Since the draft EAs were issued, additional detail on the two-phase concept has been produced; in addition, the Mission Plan (DOE, 1984, DOE/RW-0005) gives additional direction pertinent to the phased concept, the types of wastes to be received, etc. Chapter 5 has been modified to include a new table which presents a comparison of two repository concepts along with estimates of changes in impacts due to concept differences, and suggested mitigation measures.

The impact analyses presented in this table are based on engineering parameters which were generated for each of the three repository concepts, on a site-specific basis. The purpose is to present an understanding that the repository designs are still evolving, illustrate differences which could occur as the design process matures, and highlight differing impacts which follow changes in design approach.

The specific concerns stated by the commenters are addressed as follows:

1. The reference concept in the draft EA assumed nongassy conditions because the original non site-specific designs upon which the reference concept is based (NWTS R-1, NWTS R-2, OCRD) were similarly designed to nongassy assumptions. These were the most complete repository designs available at the time the EAs were developed.

   The DOE's current position is to ensure that gassy conditions can be accommodated by the design even though gassy conditions may not be present at any salt site.

2. The impacts on the host rock are expected to be greater for the current two-phase concept due to the greater extraction ratio as noted by the commenter. The specific extent of these impacts cannot be well defined at this time, but the design is based on accepted commercial design practice.

3. The increased ventilation requirements on the HEPA filtering system will lead to the surface area of the HEPA filters being increased in accordance with the high airflows expected. Additional analyses will be performed during the preliminary design phase.

4. The DOE has not completed its studies concerning whether or not the ESF should be incorporated into a repository. If the ESF facility is ultimately used as part of the repository, the ESF post closure seals must meet the same requirements imposed on other repository shafts.

5. Both salt quantities shipped off site and the salt pile size differ between the reference concept and the current, two-phase concept.

6. The site characterization activities presented in Chapter 4 have been revised to incorporate possible future differences in repository designs by incorporating pertinent aspects of the most recently available design information.

7. Concerning the retrieval issue, the current engineering detail does not allow a differentiation to be made among the repository concepts.

8. The two concepts presented in Table 5-1 are based on the premise that waste emplacement and repository development will occur at the same time. It should be noted that development areas and emplacement areas are separated by considerable distance (and rock thickness) and that separate ventilation systems are employed for each type of operation. Therefore an accident in either the development (mining) area or emplacement area should not impact the safety of the other.

9. The restricted areas will change in accordance with changes in surface areas and layout. Distances to Canyonlands Park remain essentially the same for all concepts presented.

10. The thermomechanical response of the current two-phase concept will be analyzed during subsequent design phases using site-specific information from characterization studies.

11. Differences in socioeconomic impacts are discussed in Table 5-1.

12. Differences in aesthetic impacts are discussed in Table 5-1.

The guideline findings are based on the reference concept because, as stated previously, the reference concept was the most complete repository design information available when the EAs were developed. Based on the material shown in Chapter 5 of the EA, the DOE believes that the comparison among the salt sites and conclusions reached would not change due to variations in the repository design concepts analyzed.

Issue

Several commenters stated that the discussion of controlled areas should include the basis for establishing controlled areas, the impact of the size of the repository controlled area on the Canyonlands National Park, and detailed repository layouts.

Response

Detailed repository layouts will be available after site characterization. Estimates of required areas in the subsurface as well as on the surface are presented in the EA for two repository concepts as discussed in Table 5-1. Detailed design efforts may require modification to the required controlled area.

The EAs have been modified to include a more detailed map showing the surface, subsurface, and controlled areas in Section 5.1.

Issue

Some commenters noted that the EA is unclear regarding repository security at Davis Canyon. Specifically, it was noted that:

1. A lack of definition of underground areas required for various alternatives might affect surface requirements and cause a possible infringement on dedicated park lands and Canyonlands National Park.

2. Comingling of defense and civilian wastes might affect the repository size and security requirements.

3. The current site could provide a terrorist access to harmful materials in the repository. The presence of Canyonlands Park results in a relatively isolated area.

Response

The DOE has examined the EA with regard to repository security and notes that an improved illustration is now presented in the EA to identify the controlled areas involved.

Section 5.1 has been modified to present a comparison two alternative repository design concepts, including a comparison of the land areas involved. Comingling of defense waste with civilian waste is considered under the current two-phase concept.

The DOE feels that the proximity to Canyonlands National Park will not represent an advantage to terrorist activity. During the operational period, adequate security will be provided and access to waste in massive waste packages will be difficult. During the decommissioning phase, access to and handling of massive containers will be equally difficult. The DOE believes that no modification to the EA is necessary.

Issue

Two commenters noted that the EA does not present an estimate of work hours which would allow specific numbers of injuries and fatalities to be calculated.

Response

The DOE has reevaluated the data regarding health and safety and has modified the EA in Section 5.1 and Table 5-2 to include work hours from which specific numbers of injuries and fatalities can be calculated.

Issue

Several commenters noted inconsistencies in the EAs with regard to waste packaging. Of specific concern were the following:

1. The total number of packages, receipt rates, and receiving facilities differ in each EA; this should be the same for all sites, consistent with the Mission Plan (DOE, 1985, DOE/RW-0005).

2. Assumptions regarding the emplacement of waste packages should be the same for all sites and consistent with the Mission Plan.

3. The EA notes that rod consolidation with 10-year-old fuel will be used in loading the canisters; it is not clear how this assumption relates to the DOE's obligation to accept 5-year-old fuel.

4. The number of fuel assemblies per canister differ among the EAs; any differences from a common base design should be explained.

5. Detailed discussion on the range and quantity of each waste type should be incorporated into the analysis of all EAs (see the Yucca Mountain EA).

6. Although nearly 75 percent of the waste packages will be TRU waste, no TRU-package design information is presented. The DOE should consider presenting an analysis of waste package performance based on emplacement of TRU packages.

7. The EA should discuss the effects of comingling defense and civilian waste and how this may impact facility requirements.

Response

The DOE has examined the draft EAs and finds that the total number of packages, receipt rate, receiving facilities, and assumptions regarding waste emplacement are consistent among the seven salt EAs, because a common design concept was used for the salt repository designs. A common design for all rock types is not expected or practical due to vastly differing properties of the rock types. The assumptions used for the draft EA reference designs are not consistent with the final Mission Plan (DOE, 1985, DOE/RW-0005). Table 5-1 presents a current two-phase concept that incorporates current Mission Plan guidance.

The DOE has addressed the potential impacts of placing 5-year-old waste in the repository in Section 5.1 of the EA.

The waste package designs are media specific and therefore may differ among the salt, basalt, and tuff EAs. The waste package designs for salt are consistent.

The DOE has revised the EA to include a description of contact-handled TRU waste packages (remote TRU packages are assumed to be similar to DHLW packages).

The repository will not be initially designed for all of the waste from all of the nuclear plants for the next century. In accordance with the NWPA of 1982, the second repository may not be constructed until the first repository is loaded with 70,000 metric tons (77,000 tons) of waste.

The EA states that waste storage for three months will be provided on the surface. Current requirements are established in the Generic Requirements for a Mined Geologic Disposal System (GRMGDS) (Roy F. Weston, Inc., 1984, DOE/NE/44301-1) and provide for a temporary storage capacity equivalent of three months waste receipts in order to minimize the effects of scheduled or unscheduled interruptions in repository operations. This requirement will be reevaluated if the monitored retrievable storage (MRS) is developed and will depend upon the role of the MRS in the disposal system, as discussed in the Mission Plan.

Issue

One commenter stated that the DOE should provide indication of the degree of certainty for the construction period of 7.75 years. This information is needed to determine if impact assumptions and mitigation proposals are realistic.

Response

The DOE has reexamined the EAs and notes that uncertainties in the repository construction schedule as presented in the EAs are due to the preliminary nature of the repository design concept.

The estimate presented of 7.75 years is based on site-specific considerations as well as detailed logic networks.

This schedule assumes that construction will proceed normally; e.g., significant delays due to extended strikes, etc., are not accounted for. Single shift construction is assumed for most activities except shaft sinking and initial underground development. Thus, the schedule does permit flexibility to use overtime or multiple shifts to make up for normal schedule delays due to weather, design changes, etc., which are characteristic of a major construction activity. The DOE believes that no modification of the EA is required.

Issue

A commenter is concerned that the number and sizes of the repository shafts is not consistent among the nine EAs. A further concern is that surface facility descriptions should also be the same among the nine EAs.

Response

The number and size of shafts among the salt sites is consistent. These shaft sizes are based upon underground support requirements including salt production rates, ventilation, and nuclear waste handling requirements as estimated for the salt project.

Similarly, the surface facility components are the same among the seven salt sites except for variations in layout due to site specific differences.

Other rock types have different underground support requirements as well as different surface characteristics that are considered in the design, therefore some differences in design approach can be expected.

Issue

One commenter stated that the EA is inadequate with regard to earthwork calculations, specifically the ability to estimate the soil volumes to be disturbed at Davis Canyon.

Response

The DOE has examined earthwork calculations in the EA and finds that the calculations of the soil volume to be disturbed at Davis Canyon were based on analysis of topographic maps and photographs taken at the site. One of the major construction activities at Davis Canyon includes site clearing and grading to insure proper drainage, sometimes referred to as "cut and fill." The methodology employed in making these estimates is standard civil engineering practice.

For Davis Canyon, these cut-and-fill estimates were made using United States Geological Survey (USGS) maps with 80-foot contour intervals (SCC, 1984). This was the best information available at the time, and more detailed estimates will be made during site characterization.

The DOE believes that no modification of the EA is required.

Issue

Two commenters stated that the discussion of shaft design is inadequate and unclear. Specifically, it was noted that:

1. Shear stresses were not adequately considered because of the assumption that the ratio of vertical to horizontal stresses would be the same ($K_o = 1.0$).

2. The technical basis for selection of the number and sizes of repository shafts is not present in the EA.

3. Integration of the exploratory shaft (ES) into the repository is not explained, leading to speculation about whether the ES would be located properly for subsequent repository use.

Response

The DOE has reevaluated the data regarding shear stresses.

1. Due to the lack of site-specific in situ data on shear stresses, DOE has assumed that vertical and horizontal stresses are equal. Field data on in situ stresses will be available from the site characterization activities (Section 4.1). This data will be utilized in the evaluation of the stability of the repository shafts.

2. The number and sizes of shafts is consistent among the salt sites and are based on the following requirements:

   - A service shaft large enough to accommodate two hoists for salt, equipment, and personnel transport
   - A waste shaft sized to accommodate the waste package and its transfer cask
   - A ventilation supply shaft sized for estimated underground ventilation requirements, plus emergency egress
   - Two ventilation exhaust shafts to allow for incorporation of separated underground ventilation systems for waste emplacement and mine development, as required by the NRC.

   The site-specific geologic information will affect the size of the shafts in addition to subsurface requirements, i.e., ventilation requirements, salt transport, in situ rock temperature, thermal load, etc.

   During detailed design of repository shafts, optimal size, location, cost, and time of construction will be finalized.

3. Regarding integration of the ES into the repository, the DOE notes that the exploratory shaft locations have been selected to ensure that they will not compromise the performance or integrity of the repository. The present designs provide flexibility for incorporating the exploratory shafts into the repository if necessary (see Section 4.1.2.4).

Issue

One commenter states that the evaluation in Section 6.3.3.2.3, paragraph 8 of the potentially adverse condition requiring no "engineering measures beyond reasonably available technology" does not take into account the far field thermal effects of emplacing waste before construction is completed. Specifically, the commenter is concerned that:

1. Thermal effect may influence the underground facility construction procedure by requiring extensive remedial work to maintain openings.
2. Thermal loading may require unique construction techniques.
3. Under thermal loading, the steel shaft liner may not provide adequate protection during the lengthy time from liner installation until permanent closure.

Response

The DOE does not agree that far field thermomechanical effects will require engineering measures beyond reasonably available technology. These effects are small and are not likely to significantly influence construction of the shaft or liner. Wagner et al. (1985, BMI/ONWI-512) have reported that the 100-year temperature rise for the Paradox Basin site at the center of the shaft pillar at repository elevation will be approximately 3 C in-situ temperature to 33 C. This conservatively assumes that all waste is emplaced at the same time for the entire 100 years. Since construction and emplacement will not take place in adjacent, or even nearby rooms, a similar, negligible temperature rise can be expected.

The DOE further notes that creep closure due to thermal effects is considered in the EA reference design.

No modification of the EA is required.

Issue

Several commenters stated that the discussions on shaft sealing in the EA inadequately address the following concerns:

- The effect of the thermal pulse on shaft seals
- An analysis of the impact of using different shaft construction techniques for the exploratory shaft and the repository shafts
- The effects of incorporating the exploratory shaft into the respository
- Standard engineering practices for dealing with water inflows
- The effectiveness of shaft seals in preventing hydraulic connection of aquifers
- The evidence to support the extent of the disturbed zone around openings
- The effects of seismic events on shaft liner and seals.

Response

The DOE has expanded Section 5.1 of the EA to show the current design concepts and to more clearly identify the technology to be used for sealing the underground openings, shafts, and boreholes. Data from site characterization are required to finalize the design in areas such as: location of bulkhead seals, seismic effects, thermal effects, disturbed zone extent, and effects of subsidence.

The offset pillar design for the repository shafts was incorporated to remove the shafts from thermal effects such as subsidence or differential stresses. Seismic effects predominately result in near surface ground motions and that seal systems, particularly the post closure seals, are effectively isolated from seismic effects due to their depth.

As noted in Chapter 4 of the final EA, both exploratory shafts will be sunk using conventional shaft-sinking techniques, as is currently planned for the repository shafts. This information will be included in the license application if the site is selected for a repository.

As a method for sinking shafts through wet formations, ground freezing is a standard engineering practice that has been demonstrated around the world. The effects of ground freezing on the site will be investigated during site characterization, and the results will be presented in the license application if the site is selected for repository construction.

Piezometers installed behind the shaft liners will allow monitoring during the operational phase and will allow detection of leaks behind the liner. Grout can be pumped through access holes in the liner to seal off any leaks before significant hydraulic connection between aquifers occurs.

The exploratory shafts are being designed with the capability for incorporation into the repository. If incorporated, the exploratory shaft components would be required to meet the same stringent safety requirements as the repository shafts.

Issue

Some commenters were concerned that the proposed repository location in Davis Canyon would be located within the flood plain. Specifically, concerns involved:

- Qualifying condition is not supported due to location in 100-year flood plain
- Water diversion sizing
- Flooding of retention ponds and associated impacts
- Temporary overflow ponds not shown in layout.

Response

The DOE has examined the EAs with regard to flood plain and water diversion and has checked the references for the delineation of the 100-year and probable maximum flood (PMF) plains to verify that the repository facilities including the retention ponds are partly located in the flood plain.

A conservative position on the guideline findings was taken because the repository surface facility areas included portions of the flood plain. Although the shafts are not located in the PMF, a potentially adverse condition is considered present in the findings for preclosure hydrology. The presence of the flood plain will not compromise the intended functions of the repository because the repository shafts are not located in the flood plain.

Temporary overflow ponds are shown in the layout as retention and detention ponds. These ponds serve as catch basis for site runoff which may occur from the salt pile. These ponds are sized for a 100-year, 24-hour storm. Secondary or other temporary overflow ponds are not deemed necessary.

Major repository facilities, including the retention and detention ponds are either located above the flood plain at Davis Canyon or protected from flooding. During site clearing and grading for repository construction, all low-lying areas within the restricted area will likely be filled in.

Issue

Some commenters stated that the data base of the EA inadequately analyzes ecosystem impact on the repository water sources in the Davis Canyon area. Specifically, it was noted that:

1. The impacts of pumping water from the Colorado River on the threatened or endangered species in the river and of constructing the pipeline are not adequately discussed.

2. The assessment of alternative sources of water and associated impacts is inadequate.

3. The estimates of required water quantities do not clearly indicate that they include water to control salt and particulates, and to revegetate and restore habitats.

Response

The DOE has revised Section 5.1 to clarify the water requirements.

The DOE will equip the intake structure at the Colorado River with screens to prevent fish from entering the pump chambers. The design will be such that the water velocity at the face of the screens would allow even juvenile fish to swim away from the screen.

The DOE will investigate the potential water sources other than the Colorado River, such as wells, during the site characterization phase. A more comprehensive analysis of alternatives will be completed during site characterization when hydrologic well data is obtained.

Construction water estimates include estimates for dust suppression at the site.

Issue

Two commenters felt that the EA does not present an adequate definition of the ability of local utilities to meet repository electrical and natural gas requirements. Also concern was expressed that details of the construction and placement of utility corridors are lacking along with corresponding environmental impacts.

Response

The DOE has reexamined the EAs and concludes that the ability of local utilities to meet repository requirements is documented in the "Basic Repository EA Design Basis, Paradox Basin, Davis Canyon Site" (SCC, 1984). Based on current knowledge, the local utilities will be able to meet repository requirements.

The DOE has reexamined the utility corridors presented in the EA and has concluded that the discussion included is consistent with the preliminary nature of the repository designs. The DOE believes that no modification of the EA is required.

Issue

A few commenters stated that the discussion of treatment and disposal of repository generated wastes is inadequate in the following areas:

- Potential for retention pond overflow during major or multiple storm events
- Treatment and disposal of other wastes such as sanitary wastes and solid wastes
- Impact and mitigation of increased runoff.

Response

The DOE has examined the information on repository generated wastes and has revised Section 5.1.3 to add a discussion of the Treatment of Other Repository Generated Wastes, to address these issues. The total area of the ponds is listed in Table 5-1.

Issue

One commenter stated that the EA does not adequately specify the type(s) of exterior contamination (including frequency and dose rate) that would have to be removed from a shipping cask in the analysis of generated waste.

Response

Generally what is removed during decontamination is road grime accumulated during transportation. However, there is a small probability of very low levels of radioactive surface contamination, resulting from the cask loading operations that may not have been effectively removed at the shipping point. This cask washdown water is treated as radioactive liquid waste until analysis is performed. If this waste is found to be contaminated, it will be disposed of in a manner consistent with all regulations. The DOE believes that no modification to the EA is required.

Issue

One commenter states that the evaluation of qualifying conditions of the suitability of host rock for accommodation of the underground facility and not causing undue hazard to personnel in EA Section 6.3.3.2.1 is inadequate with respect to retrieval because it does not address the uncertainties regarding re-excavation of storage rooms and relocation of waste canisters.

Specifically, there are no data, previous experience, or analyses cited to base the expectation that retrieval can be accomplished without undue hazard and with reasonably available technology. Uncertainty also exists relating to the possibility of breaching a waste package.

Response

The DOE believes that reexcavation of storage rooms and relocation of waste canisters can be accomplished without undue hazard and with reasonably available technology. For example, retrievability in salt was demonstrated at the Project Salt facility at Lyons, Kansas (Bradshaw and McClain, 1971, ORNL-4555) 15 years ago.

Reexcavation of waste rooms is more difficult than initial excavation because of operation in a high temperature environment and in providing adequate stability in rock which has been subject to creep and strength reduction at high temperature.

Operation of excavation equipment at a high ambient temperature will require large quantities of cooling, remote operation of the equipment, operator isolation in a cooled equipment cab, or some combination of these measures. Providing stability in mining weakened rock requires caution and may require artificial support. As stated in EA Section 6.3, these measures, while costly,

should be possible with reasonably available technology and without undue hazard.

Canisters can be located by any or a combination of several available techniques including magnetic fields, radioactivity, earth penetrating radar, and precise surveying from monuments outside the area of most severe creep (since the problem is not movement of the canisters relative to a fixed frame but movement of points of reference).

Uncertainty related to the possibility of breaching a canister during retrieval has not been addressed in the EA. This possibility must be considered in the design of retrieval machinery and methods to be demonstrated before licensing. From a viewpoint of personnel safety retrieval operations may require remote operation of over coring or shielding of a cooled operator enclosure mentioned above. The DOE notes, however, that accident scenarios resulting in rupture of a waste package have been addressed in Section 6.4.1.4 of the EA.

Section 5.1 addresses this requirement for analysis of retrieval effects on repository design and the development of methods and equipment for retrieval during the site characterization period and subsequent design phases which a "proof of principle" demonstration to support the license application.

Issue

One commenter is concerned with the containment of gaseous hydrocarbon in the repository site which may cause an explosion during the operating life of the repository, after waste package emplacement (due to thermal impacts on pressure pockets), or during the hoisting of the waste containers in the shaft.

Response

The commenter's general concern about a gas explosion during repository operations is valid; however, the DOE is fully committed to the safety of underground operations and has taken the following steps to minimize the potential for explosions:

1. The preliminary design of the repository is based on gassy conditions; hence during detailed design of the repository, applicable Mine Safety and Health Administration regulations will be adhered to during the operating, emplacement, and retrieval phases of the design.

2. An investigation of possible explosion scenarios in the repository during the emplacement and retrieval phases will be considered by the DOE. This investigation will be part of a proof-of-principle demonstration prior to repository licensing.

3. The impact of a gas explosion in the underground repository may affect safe handling of waste containers during hoisting cycles in the shaft. A literature review indicates occurrences of such explosions in the

East German potash mines in the past (Djahanguiri and Mahtab, 1985). The impact of a gas explosion on safe handling of waste containers in the shafts will be demonstrated as part of the proof-of-principle demonstration period prior to repository licensing.

Issue

One commenter states that based on current evidence, retrievability in salt is unlikely to be demonstrated within the lifetime of the first repository. This conclusion is based on a presumed retrieval environment after five years consisting of:

- Canisters at 130 to 240 C (266 to 464 F)
- Salt temperature of 80 to 120 C (176 to 248 F) at a distance of 2 meters
- Radiation in the backfill from radionuclides of H-3, I-129, Ar-8S, and C-14
- Salt creep that has caused canister movement.

The commenter states that the equipment to achieve retrieval in this environment does not currently exist and is unlikely to be developed during the lifetime of the repository. If retrievability is to be achieved, it must be developed before the canisters are committed to storage or disposal in salt.

Response

The environmental conditions listed make retrieval in salt difficult and the specific equipment needed for repository retrieval have not been developed. This equipment will be design, developed and demonstrated. The revised Section 5.1 clarifies the DOE's present position on retrievability and states the DOE's commitment to demonstrating retrieval under repository conditions during a proof-of-principle period supporting the repository license application. Waste retrieval in salt was demonstrated 15 years ago at the Project Salt Vault Test in Lyons, Kansas (Bradshaw and McClain, 1971, ORNL-4555). The DOE believes salt creep will not be an insurmountable factor in retrieval operations.

Radionuclides will be present in salt only in the unlikely event of a breached canister, not as a part of normal retrieval operations. Kendorski et al. (1984, NUREG/CR-3489) makes no mention of I-129 as a retrieval concern and DOE agrees with this position. The design of methods and machinery for retrieval will include the possibility of retrievability of a breached canister, however, which implies either remote control or a shielded operator compartment.

Within the first 5 years after waste emplacement, salt creep around the canisters will close the air gap between the canister and the emplacement hole, although it is not likely that the canister will translate or rotate due to creep closure.

Issue

One commenter states that the analysis of potentially adverse conditions for the Rock Characteristics Guidelines needs to be expanded to address the following retrievability problems:

- Reexcavation of rooms in the presence of heat
- Rapidly creeping openings
- High levels of radiation, steam, and possibly chlorine and hydrogen
- Thermally elevated conditions that pose ventilation, mining, and radiological safety problems.

The commenter states that these problems will require sophisticated remote mining, rock handling and possibly roof support installation equipment with cooled and shielded enclosures for the operator and support personnel. This equipment needs to be developed and operators trained.

Response

Conditions described in the comment are key considerations in the design of the repository as well as the methods and machinery required for retrievability and will require either remote control, shielded and cooled operator compartments, precooling of the waste room prior to retrieval, or some combination of these measures. The methods and equipment needed to conduct retrieval operations are presently under development by the DOE as part of the repository design process, and are to be developed and tested as part of the proof-of-principle demonstration period prior to licensing.

The DOE's position on retrievability is addressed in revised Section 5.1.3.

Issue

One commenter states that Section 5.1.3 of the EA implies that the decision to backfill or not to backfill waste rooms is affected by the commitment to maintain retrievability. Other decisions related to thermal load limits, access drift support designs, maintenance, personnel radiological safety, etc., which will also be impacted by retrievability have not been assessed.

This commenter further states that the greater creep tendency for Cycle 6 salt at elevated temperatures may influence retrieval operations by limiting the allowable thermal loading.

Response

The DOE concurs that the commitment to maintain the ability to retrieve previously emplaced waste packages, required by 10 CFR 60.111, will influence design decisions other than to backfill waste rooms. Section 5.1.3.3 simply states that backfill will not be placed until the ability to retrieve waste packages has been demonstrated. In fact, such ability will be demonstrated during the proof-of-principle demonstration period prior to licensing. Section 5.1.3.3 of the EA has been modified to more specifically address the issue of retrievability.

The DOE agrees with the commenter that thermal loading affects creep rates. The DOE does not agree that the increased creep rate of salt at elevated temperature will necessarily result in the reduction of the allowable thermal loading. According to Kendorski et al. (1984, NUREG/CR-3489), although repository designs must allow for retrievability, the requirement for retrievability should not dictate repository design. The effect of greater creep rate at elevated temperature will make retrievable operations more costly and more difficult, requiring, for example, a sizeable amount of overexcavation to maintain sufficient offering height during overcoring, are but not expected to affect the feasibility of the repository construction. No change in the EA is required.

Issue

A single commenter is concerned that the differences in salt pile quantities between Davis and Lavender Canyons are not justified because the EA states that the designs are not site specific.

Response

The repository designs presented in the EA are based on nonsite-specific designs as stated in the draft EA. These nonsite-specific designs were then modified to fit the unique features of each candidate salt site (e.g., underground arrangement, surface arrangement, depth, etc.).

The small differences between the salt quantities noted by the commenter are primarily due to differences in the underground layouts between Davis and Lavender Canyons because the access drifts for Lavender are longer, and therefore required more excavated salt.

Reexcavation (scaling) was also considered in the site-specific aspects of the designs which also differed very slightly due to slight differences in repository depth between the two Paradox sites.

In summary, the site specific aspects of each design has resulted in the differences in salt quantities noted by the commenter.

No revision to the EA is required.

Issue

Many commenters stated that the disposal of excess salt from the repository has not been sufficiently analyzed. Specifically, the commenters addressed the following:

- The shipping mode to be used
- The volume of traffic that will result
- The transportation routings to be used
- The environmental risks
- The state and local regulations involved
- The resource requirements, environmental impacts, and salt disposal options
- The salt crust formation and behavior under varying conditions
- The effect of tornadoes and earthquakes on the onsite salt pile
- The salt pile liner performance over the lifetime of the repository
- The distance between the salt pile and the subsoil and topsoil stockpiles
- Salt disposal option selected and the disposal site location
- Concern about the "onsite" disposal option
- The definition of salt-contaminated soil and the impact of this definition on the quantity of soil to be disposed
- Disposal of the liner during reclamation
- The feasibility of onsite salt disposal; i.e. long-term membrane permeability, depth of topsoil for deep-rooted shrubs, source of topsoil
- Appearance and conflicting statements in the EA about the method of salt disposal to be selected
- The disposal of contaminated soils and fugitive wastes and location
- Monitoring the soil's salinity during repository construction and operation
- The impacts of truck removal of excess salt

- Assumptions made about inbound and outbound railroad cars for salt, nuclear materials and supplies, and the impacts on the environment, such as noise

- The effect of the two-phase repository on the exact volumes of salt to be excavated, how and where the excess salt will be disposed and how large the salt pile will be.

Response

The DOE has reported the results of a study on the nature of the salt pile at the Waste Isolation Pilot Plant (WIPP) and some of the findings have been included in the revised EA. Conclusions from this study include the following:

1. Formation of the crust occurs very shortly after deposition of salt on the pile.

2. Formation of the crust probably requires that moisture be present.

3. Experience at the WIPP site indicates that the thickness of the crust is significant and will support heavy loads.

4. Portions of the crusted salt pile are hollow.

5. In dry areas where annual evaporation exceeds rainfall, very little brine leaches to the subsoil.

The arid conditions in the State of Utah may require that water be added to fresh portions of the salt pile daily. The water requirement would be minimal.

The DOE has examined the EA with regard to disposal of excess salt and notes that the Executive Summary has been changed to show that no specific method of salt disposal has been selected.

The DOE has not conducted analyses of the impacts resulting from tornado and earthquake damage to the salt pile. The DOE believes that the probability of significant tornadoes and earthquake damage to the saltpile is remote.

The DOE has investigated liner performance and has determined that only limited data are available upon which to base an analysis of liner performance over the lifetime of the repository. Current practice of firms using salt piles is to operate without the use of either polymeric or clay liners. Other materials classified as hazardous are typically disposed of above clay or polymeric liners. Any salt brine slowly leached to the ground water is likely to become significantly diluted such that the concentrations will be small. Finally, the characteristics of salt piles to be able to absorb water during precipitation, and later to give up small quantities of water by evaporation during evaporative periods, limits the quantity of brine available for leaching to the soil.

The DOE recognizes that salt disposal is an important issue. Section 5.1 has been expanded to provide additional detail on the salt handling requirements for salt disposal. Section 5.3.5 of the EA addresses transportation related aspects of salt disposal.

The long-term integrity of the onsite disposal option is also questioned by the DOE, as stated in Section 5.1.3.4.4 of the EA which agrees with the commenter's concern.

Detailed design requirements for the topsoil and subsoil stockpiles have not been specified in the repository design nor have the required distances between the salt pile and the soil stockpiles. Design of the soil stockpiles and their orientation will be such that windborne and waterborne salt from the salt pile are minimized.

The DOE is concerned primarily with identifying the method for disposal to ensure that all environmentally unacceptable soil is disposed of properly. A definition of salt-contaminated soil has not been specified by the DOE, but the definition will recognize the importance of attempting to restore the site to its original condition to the extent practicable.

The DOE is concerned about the criticality of proper removal and disposition of the liner array during the reclamation process. The DOE recognizes that proper procedures must be used to remove the liner assembly to avoid possible salt contamination of the soils near the site. Contaminated clay liner material will be dealt with similar to other contaminated soils, while polymeric liners will likely be incinerated. The handling, storage and disposal of all salt and salt-contaminated materials will be conducted in accordance with all applicable Federal, State, and local regulations.

The DOE has provided in the revised EA an analysis of the impacts of rail transport with assumptions on inbound and outbound car movements.

The DOE has added a new Table 5-1 to the EA which addresses the salt related impacts of the current two-phase concept. This issue will be analyzed in detail during site characterization and as the design process continues.

Issue

A commenter stated that the EA is inadequate with regard to a discussion of measures to mitigate potential mining hazards to personnel.

Response

The DOE's policy concerning occupational heath and safety standards at all DOE operations, or at DOE contractor operations during facility design construction, operation, modification, and decommissioning, is addressed in DOE Order 5480.1A, effective 1981, pending DOE Order 5480.4, and DOE Order 6430.1. The DOE has adopted the Mining Safety and Health Act of 1977 (30 USC Sections 801

et seq.) and California Mine and Tunneling regulations as minimum prescribed policy standards for mine and tunnel safety. DOE Order 5480.1A, established that prescribed standards providing the greatest safety shall govern if there are conflicts between standards. These safety considerations are summarized in "Summary Report of Safety and Regulatory Considerations Requiring Two Shafts at an Exploratory Shaft Facility" (Roy F. Weston, Inc., 1984).

Since these provisions for personnel safety are in the public record no revision to the EA is deemed necessary.

Issue

Several commenters noted that Section 5.1.5.3 of the EA says that, although post-closure monitoring requirements have not been established by the Nuclear Regulatory Commission (NRC), it is possible that such requirements would be instituted. The DOE should discuss this matter with the NRC. It appears that the close proximity of Canyonlands National Park, particularly its location downgradient in the most likely direction of ground-water flow, would present serious limitations to postclosure monitoring activities. Also, there is a contradiction in post-closure monitoring position since Section 5.2.1.1.3 states that "the site will be monitored."

Also, the commenters stated that the DOE fails to discuss the possibility that post-closure monitoring may require drilling in the park, even though ground-water flows are predicted as traveling towards and under the park. The EA also fails to identify the criteria that will be used to determine if, when and where drilling in the park will occur.

Response

The current NRC position regarding repository monitoring is contained in 10 CFR Part 60, Confirmation Program. This proposed regulation requires that selected waste packages will be monitored as long as practical up to the time of permanent closure. This monitoring period would be at least 50 years following the start of waste emplacement operations. A further monitoring program (after closure) is required by this proposed regulation; however, specifics of this program will only be defined after significant period of site study has occurred.

40 CFR Part 191 defines the environmental radiation protection standards for nuclear waste disposal. Section 191.14 states that "Disposal systems shall be monitored after disposal to detect any substantial and detrimental deviation from expected performance. This monitoring shall be done with techniques that do not jeopardize the isolation of the waste and shall be conducted until the implementing agency determines that there are no significant concerns to be addressed by further monitoring." This regulation is open ended concerning the length of time that monitoring would be required.

There are no plans to drill in Canyonlands National Park. Section 4.1 of the EA discusses the field activities that will occur during site characterization. None of these activities occur in Canyonlands National Park.

C.4.4 CHAPTER C.4 REFERENCES

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C.4.4.2 Federal Regulations and Statutes and DOE Orders

10 CFR Part 60, Disposal of High-Level Radioactive Wastes in Geologic Repositories; Technical Criteria.

10 CFR Part 960, Nuclear Waste Policy Act of 1982; General Guidelines for the Recommendation of Sites for the Nuclear Waste Repositories; Final Siting Guidelines.

36 CFR Part 800, Procedures for the Protection of Historic and Cultural Properties.

40 CFR Part 191, Environmental Standards for the Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes; Final Rule, September 19, 1985.

40 CFR Part 261, Identification and Listing of Hazardous Waste.

Canyonlands National Park Act, 16 USC Sec. 271.

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DOE Order 6430.1, General Design Criteria Manual.

C.5 POSTCLOSURE PERFORMANCE

This section addresses comments related to the postclosure characteristics of a nuclear waste repository that are intended to maintain waste isolation over an extended period. The objective of postclosure performance of a repository, as delineated in the DOE's general siting guidelines (10 CFR Part 960), is to comply with EPA and NRC regulations intended to insure the health and safety of the public and the quality of the environment. This section corresponds to EA Sections 3.2, 5.2, 6.3, and 7.2 concerning the ground and rock characteristics of the immediate repository environment, the overall characteristics of the postclosure environment, and potential human interactions with the repository.

C.5.1 GEOHYDROLOGY

Issues raised by commenters include:

- Alternate travel paths
- Contamination of potable water supplie_
- Uncertain flow parameters
- Possible fracture flow.

Issue

Numerous commenters stated that alternate travel paths should be considered in evaluating the postclosure technical guideline for Geohydrology (10 CFR 960.4-2-1).

Response

The DOE has reviewed the text and has determined that while the most likely travel path is presented in the EA, alternative travel paths may exist. The DOE has therefore modified the final EA (Section 6.3.1.1) to include additional analyses to determine alternate travel paths and recalculated travel times from the disturbed zone to the accessible environment according to these new travel paths (Section 6.4.2.3.5).

Issue

Numerous commenters have expressed concern over contamination of potable water supplies at the site.

Response

Federal standards set by the U.S. Environmental Protection Agency (40 CFR Part 191) prohibit contamination of potable water supplies by radionuclides harmful to humans. The DOE is required to comply with such regulations for the high-level nuclear waste repository. Ground-water flow paths are not expected to be towards potable water supplies; rather they are expected to be predominantly downward or laterally from the repository to nonpotable brine aquifers. Alternative travel paths are included and the DOE has revised the EA (Section 6.3.1.1) to provide discussion of alternative travel paths and associated ground-water travel times from the disturbed zone to the accessible environment.

Issue

Several commenters stated that flow parameters were both uncertain and nonconservative.

Response

The principal parameters controlling the ground-water travel path from the disturbed zone to the accessible environment inherently have a degree of geological uncertainty. Such parameters include horizontal and vertical gradient, permeability, porosity, salinity, and the continuity and thickness of each layer. To address the uncertainty in flow parameters, a system analysis approach was used to calculate travel paths and time for the EAs from multiple realizations based on the Latin Hypercube Sampling (Iman and Conover, 1982, NUREG/CR-2350) method (Section 6.4.2.3.5). The DOE has revised the EA (Section 6.3.1.1) to account for uncertain values by presenting a range of flow parameters used to calculate ground-water travel paths and times.

Issue

Several commenters were concerned over possible fracture flow, and secondary porosity in the subsurface.

Response

The DOE has assessed the relative importance of the data to evaluate the effect of fractures, or the contribution through fractures to ground-water flow at the Davis Canyon site. Based on currently available information, the DOE concludes that the effects of flow through fractures on travel-time calculations are best approached in a stochastic manner (Section 6.4.2.3.5). A range of travel times was estimated by stochastic pathway analysis using known or expected distributions of pressure, fluid density, permeability, and effective porosity. The DOE has modified the EA (Section 6.3.1.1) in accordance with the additional analyses. Travel times in the final EA are based on stochastic pathways from Latin Hypercube Sampling (Iman and Conover, 1982, NUREG/CR-2350).

C.5.2 GEOCHEMISTRY

This category includes comments and concerns addressing the geochemical interaction of nuclear waste with its surroundings in a repository at the Davis Canyon site. This category corresponds to comments received on Section 6.3.1.2 and 7.2.1.2 of the EA.

Issues raised by the commenters include:

- Potential effects of geochemical conditions on high-level waste disposal
- Radionuclide mobility and migration
- Potential impacts of large amounts of carnallite
- Evidence of postdepositional dissolution
- Adequate use of geochemical modeling
- Errors in the description of host salt unit.

Several commenters expressed concern that the DOE has not adequately considered the potential effects of geochemical conditions and processes on the high-level waste (HLW) disposal system. Areas of particular concern were the description of in situ conditions (including the uncertainty in that description) and the potential for adverse chemical and geochemical effects on the performance of the waste package and the overall system. The comments were grouped into the following major issues: radionuclide mobility and migration, the presence and potential impact of carnallite, postdepositional dissolution, geochemical modeling, and host rock salt mineralogy and petrology.

In that site-specific geochemical information is not available for the Davis Canyon site, pertinent data are provided by rock and formation fluid samples obtained from the GD-1 drill hole located on the southeast flank of Gibson Dome. Expected chemical interactions in the host salt are corrosion of the waste package by thermally-migrating brines from the salt and, in the event of waste package failure, leaching of radionuclides from the waste package. The unexpected condition of waste package corrosion by unlimited volumes of intrusive ground water has also been considered in the performance assessment calculations (Section 6.4.2).

The Cycle 6 host horizon contains small amounts of intergranular and fluid inclusion brine as well as water that is present in hydrous mineralogical phases such as clays and carnallite. The maximum volume of brine available for migration toward and corrosion of the waste package has been recalculated in the revised EA (Section 3.2.7.1) and is less than the 5.0-volume-percent value used in the waste package performance calculations. Thermally migrating brines will likely have a relatively high magnesium content, whereas intrusion brines are expected to be low in magnesium (Pederson et al., 1984). The performance

assessment calculations conservatively assume other input values that result in shorter projected lifetimes of the waste packages and greater radionuclide release than the expected values. The results of the performance assessments (Section 6.4.2), which demonstrate the presence of the qualifying condition (Sections 6.3.1.2.1 and 6.3.1.2.5), are summarized as follows:

- Waste package corrosion by unlimited quantities of low-magnesium intrusion brine under expected conditions will not lead to waste package failure within 10,000 years after burial.

- Thermally induced brine migration will bring only a moderate volume of high-magnesium brine in contact with the waste package, and the high-magnesium brine that accumulates will not destroy the ability of the waste package to meet the requirements of 10 CFR 60.113.

- A conservative analysis of expected conditions shows that less than 0.001 percent of the 1,000-year radionuclide inventory would dissolve per year.

Specific issues are discussed in greater detail below.

Issue

Commenters were concerned about radionuclide mobility and migration. It was noted that the calculations of radionuclide release presented in the EA may be in error.

Response

The DOE notes that the question of radionuclide mobility and migration can be broken down into four areas of specific concern: oxidation and reduction conditions, potential for colloids or organic complexes contributing to radionuclide transport, mineral sorption properties, and the data base used to calculate solubilities.

The DOE has reexamined the available evidence on oxidation and reduction conditions in the repository horizon and in the deep aquifers. The Cycle 6 host rock contains only minor amounts of water, which is present primarily as hydration water in carnallite. Although little direct evidence exists on the oxidation-reduction potential of water present in the actual host rock, direct redox measurements and calculation of redox couples suggest that ground water in the Leadville Limestone underlying the Paradox Formation is chemically reducing. The evidence, which has been summarized in Sections 3.2.7.2, 6.3.1.2.2, and 6.3.1.2.3 of the revised EA, consists of the following:

- Presence of organic carbon and pyrite in the sedimentary strata (Hite, 1983, Table 5; Padan et al., 1984; McCulley et al., 1984)

- Presence of methane, ethane, and dissolved sulfide in deep-basin brines (Hite, 1983, Table 5; McCulley et al., 1984)

- In situ Eh in deep-basin brines ranging from -80 to -240 mV based on platinum electrode measurements and from -113 to -143 mV based on sulfide/sulfate redox couple calculations (McCulley et al., 1984)

- Limited evidence of short-chain aliphatic acid anions, which are anaerobic decomposition products of sedimentary organic matter, in deep-basin brines (McCulley et al., 1984).

Lindberg and Runnells (1984) point out that obtaining reliable Eh measurements in ground water is problematic, but the presence of redox-sensitive species such as sulfide and methane can provide at least a qualitative guide to the redox status of water. At these low redox potentials expected, redox-sensitive radionuclides are expected to be stable in their lower oxidation states where solubility is minimized.

Gamma radiolysis may alter the ground-water redox state through the production of species such as hydrogen peroxide, oxygen, hydrogen, chlorine, and possibly perchlorate (Panno and Czyscinski, 1984). Similar effects are predicted from alpha radiolysis of brines (Pederson et al., 1984), which will not occur until waste package failure. Brine radiolysis reactions have been experimentally documented at dose rates many orders of magnitude greater than that expected at the waste package surface, and will be limited to the near-field repository environment should they occur. If future research demonstrates significant brine radiolysis at expected repository dose rates, then engineering measures can be implemented to minimize any adverse effects.

The potential for transport of radionuclides as complexes with organic chemical species has been reevaluated in terms of existing data, and Sections 3.2.7.2 and 6.3.1.2.2 of the draft EA have been revised accordingly. Of the drill-stem test fluids collected from the Leadville Limestone at GD-1, only one sample contained no detectable drilling fluid contamination. The total organic carbon concentration of this sample was low, and short-chain aliphatic acid anions, including acetate, were detected in this and other drill-stem test fluids containing low but detectable drilling fluid contamination (McCulley et al., 1984). Although available organic geochemical data on deep Paradox Basin brines are insufficient to reach definitive conclusions, if short-chain aliphatic acid anions are the principal organic species present, then significant radionuclide complexation would not be expected because such compounds are very weak complexing agents (Means and Hubbard, 1985, BMI/ONWI-578). The speciation and amount of organic matter contained in Salt Cycle 6 halite as inclusions and possible effects on radionuclide complexation have not yet been evaluated. The potential for generation of complex organic species by radiolysis of methane and other naturally occurring organic materials has also been reevaluated and concluded to produce degradation products such as formic acid, carbon dioxide, water, and polyethylene (Lind, 1961; Gray, 1984). These compounds are not expected to affect radionuclide mobility (Section 6.3.1.2.2).

Colloids may enhance the transport of radionuclides in ground water under some conditions. Section 6.3.1.2.2 of the EA has been revised to clarify the available information on radiocolloid formation and stability. Brines promote the conversion of stable hydrophilic colloidal suspensions to unstable hydrophobic particles (Stumm and Morgan, 1970, pp. 500-507). The conversion process is accompanied by colloid growth and charge reversal, resulting in large, relatively immobile particles that can be more effectively filtered by geological substrates. The applicability of this phenomenon to radiocolloid transport in a salt repository warrants further investigation.

The draft EA briefly stated in Sections 6.3.1.2.2 and 6.3.1.2.3 that, although sorption might occur in the host horizon, high salinity would minimize its effects. Considerable radionuclide sorption may occur in the clastic sedimentary units surrounding the Cycle 6 host salt, although present data are insufficient to permit a quantitative assessment of this phenomenon. Because no credit for sorption is taken in the performance assessment calculations, no further adverse effects from repository-related processes are possible (see Section 6.3.1.2.3).

The solubility data used for calculation of postclosure system performance (Section 6.4.2.3.4) contain uncertainties and assumptions. There are inadequacies in any currently available data set. Because of the lack of measured values for various species in concentrated brines at elevated temperature and pressures, the thermodynamic data base used for calculating radionuclide solubilities is not adequate for definitive calculations. The uncertainties in system performance calculations caused by the uncertainties in the thermodynamic data base are discussed in revised EA Section 6.4.2.3.4.

Issue

Commenters stated that the potential impacts of large amounts of carnallite that might exist at or near the repository horizon of the site were insufficiently addressed in the EA.

Response

At GD-1 the Salt Cycle 6 host unit is about 73 meters (241 feet) thick and consists of approximately 46 meters (151 feet) of carnallite markerbed, defined as that part of the unit having a potassium content in excess of 0.05 percent in its upper horizon. The carnallite markerbed contains only a few percent carnallite, which is dispersed through the entire bed, and is believed to decrease in thickness considerably in the site area (Hite, 1982). Three principal concerns were raised concerning the presence of carnallite in the upper horizon of Salt Cycle 6: (1) carnallite, which contains 38.9 percent water by weight, may provide a source of brine that may migrate to the repository horizon and participate in waste package corrosion; (2) brines resulting from dissolution or dehydration of carnallite may be high in magnesium, which accelerates waste package corrosion; and (3) the hydrometamorphic alteration of carnallite may result in a change in rock volume, which may in turn impact rock strength.

Those sections of the revised EA that more thoroughly address these issues are summarized below.

The Cycle 6 host horizon contains small amounts of intergranular and fluid-inclusion brine as well as the water present in hydrous mineralogical phases such as clays and carnallite. Essentially all of the water released from Salt Cycle 6 high-potassium zones at 200 C (392 F) and less will be from carnallite (Conner, 1983). Based on conservative calculations of mean water contents of Cycle 6 halite, clay, and carnallite, the maximum amount of brine available for migration toward and corrosion of a waste package is shown to be slightly less than the 5.0-volume-percent value used in the waste package performance assessments in Section 6.4.2. The detailed calculations are presented in revised EA Section 3.2.7.1 and are synopsized in Sections 6.3.1.2.2, 6.3.1.2.3, and 6.4.2.3.2.

It is unlikely that all of the brine in Cycle 6 strata will migrate to the waste package at repository temperatures. The migration of intergranular water may be blocked, and molecular water may remain trapped in halite, even at high temperatures and despite long periods of heating (Roedder and Bassett, 1981). In addition carnallite loses water in stages with increasing temperature, and the amount of water that will be released from carnallite dehydration in the repository thermal environment is expected to be significantly less than its total theoretical yield (Conner, 1983). Furthermore, because waste packages will be located at some distance from the carnallite markerbed, carnallite dehydration water may never reach the waste package surface. The permeability of the halite matrix is probably such that water from the carnallite will remain in place. The thermal migration mechanism for fluid inclusion transport may not apply to water in halite 9 meters (30 feet) or more from the thermal source. Realistic estimates (Sections 3.2.7.1, 6.3.1.2.2, 6.3.1.2.3, and 6.4.2.3.2) of brine volumes available for waste package corrosion suggest values significantly less than the 5.0-volume-percent value used in the performance assessment calculations.

Site-specific compositional data for Cycle 6 brines are not available. Expected brine compositions are more thoroughly discussed in revised EA Sections 3.2.7.1, 6.3.1.2.2, 6.3.1.2.3, and 6.4.2.3.2. If analogous to Waste Isolation Pilot Plant and expected Palo Duro Basin, Texas (Hubbard et al., 1984) brines, then Paradox thermally migrating brines can be expected to be relatively high in magnesium and potassium, in addition to sodium and chloride.

Brines could also form by dissolving salt in the unlikely event that the repository is flooded by external water. The composition of these types of brines is relatively well known in that they represent the water-soluble fraction of the salt. Such intrusive brines are expected to be low in magnesium and potassium, similar to that of an experimentally produced composite Paradox Basin dissolution brine discussed by Pederson et al. (1984). Despite the presence of the magnesium-bearing evaporite minerals, carnallite and kieserite, in the upper section of Salt Cycle 6, numerous processes are expected to limit the magnesium concentrations of any intrusion brine that flows through the carnallite marker bed on its way to the repository. Any brine flowing rapidly through Salt Cycle 6 will likely not have the opportunity to saturate with magnesium.

Although the solubilities of carnallite and kieserite are very high (Weast, 1984), a brine intruding into the repository horizon must already be saturated in halite. The magnesium concentration of the brine will be further attenuated by the precipitation of magnesium-bearing minerals, some of which exhibit decreasing solubility with increasing temperature. Dilution of higher-magnesium fluids by lower-magnesium fluids is also expected to occur.

The carnallite marker bed is expected to be located at least 9 meters (30 feet) from the repository, and at this distance the maximum temperature to which the carnallite will be exposed is 90 to 120 C (194 to 248 F). In this temperature range, hydrometamorphic reactions such as dehydration and phase transformation are possible, but melting is not expected. Carnallite begins to dehydrate at 90 C (194 F) and melts at 225 C (437 F) (Conner, 1983; Weast, 1984). Kieserite, which occurs in low quantities in Cycle 6 with the carnallite, begins to both dehydrate and melt at approximately 365 C (689 F) (Conner, 1983). Under hydrous conditions carnallite may undergo phase transformations, but the expected products are minerals with higher melting points (Braitsch, 1971). Brine formation also accompanies the transformation reactions, but the low permeability of Cycle 6 halite suggests that brines resulting from carnallite decomposition or dehydration would probably remain in place and not migrate. Carnallite transformation reactions are accompanied by a small change in volume, which has been calculated in Section 6.3.1.2.2 of the revised EA. Therefore, although the data do not permit definitive conclusions, compelling evidence for geochemical processes that degrade rock strength does not exist (Sections 6.3.1.2.2 and 6.3.1.2.3).

Issue

Commenters stated that geochemical evidence of postdepositional dissolution should be discussed. Evidence of postdepositional dissolution may indicate poor stability and lack of isolation of the repository horizon from the accessible environment.

Response

The locations of known and suspected dissolution features are provided in EA Sections 6.3.1.6.1 and 3.2.5.6. None of these features is believed to be indicative of processes that could affect the isolation capabilities of the site during the next 10,000 years. Furthermore, Salt Cycle 6 has distinctive bromide profiles, with high bromide concentrations in its upper horizon, suggesting that no outside ground water has affected the salt.

Issue

Commenters expressed concern that geochemical modeling was not used adequately as a tool for describing and predicting geochemical conditions and interactions with engineered materials.

Response

The DOE has an ongoing program, as part of performance assessment, in the development and application of geochemical models for various aspects of system performance. A repository in salt presents a chemical environment characterized primarily by an extremely high level of dissolved solids in any water present. Geochemical models currently available have been designed for use in dilute solutions, and are not adequate predictors of geochemical interactions in brines. Also, the thermodynamic data base for various radionuclide solution species is subject to uncertainties and estimations and therefore is not adequate for definitive calculations. One computer code, EQ3/EQ6, is currently being modified for use on repository conditions (INTERA, 1983, ONWI-472). Plans for the application of this code for waste package, repository, site, and total system performance assessments are discussed in the performance assessment plan for the salt repository project (BMI/ONWI-545, 1984).

Issue

Several commenters maintained that the quantitative description of the host salt unit was in error, and that the thermal and solubility behavior of the minerals was not thoroughly discussed or accounted for in performance calculations.

Response

The DOE has revised Sections 3.2.7.1 and 6.3.1.2.2 regarding the mineralogic constituents of the Cycle 6 host salt sampled at GD-1. Generally the primary mineral constituents of Salt Cycle 6 are halite, anhydrite, carnallite, and kieserite. The carnallite and kieserite are located in the upper portion of Salt Cycle 6. Secondary minerals include sylvite, polyhalite, magnesium borates, magnesite, and trace amounts of quartz, geothite, biotite, muscovite, anatase, rutile, talc, and various clay minerals.

Processes that might degrade rock strength include melting of host rock minerals, thermal dehydration accompanied by volume reduction, and radiolytic decomposition of mineral phases. Under the expected repository thermal conditions of less than 250 C (482 F) in the near-field and less than 120 C (248 F) at a distance of 5 meters (16 feet) or more from the waste package, hydrometamorphic mineralogical reactions such as hydration, dehydration, and recrystallization may be of concern, but melting is considered extremely unlikely. EA Sections 6.3.1.2.2 and 6.3.1.2.3 have been revised to more thoroughly document expected repository effects on the host rock. The revised text on salt mineralogical constituents and thermal and solubility behavior of the minerals has not lead to changes in the performance assessment calculations in Section 6.4.2.

Minerals present in the Cycle 6 host horizon melt at temperatures (Weast, 1984) far exceeding the maximum expected repository temperature of 250 C

(482 F), and eutectic phases with significantly lower melting points are not expected.

Furthermore, at expected temperatures, the minerals with lower melting points, carnallite and kieserite, may undergo phase transformations (Braitsch, 1971), and the expected transformation products are largely halite and sylvite, which melt at 800 C and 770 C (1,472 F and 1,418 F), respectively (Weast, 1984), plus brine. Such transformation reactions are accompanied by a small change in volume, the direction of which depends upon whether the brine is retained in the near-field or migrates away. The maximum expected volume change, which is low, has been calculated in Sections 6.3.1.2.2, 6.3.1.2.3, and 6.4.2.3.2 of the revised EA.

Clay minerals are present in very low concentrations and may undergo thermal dehydration resulting in changes in their physical properties. Any associated volume change is expected to be totally offset by salt creep and expansion around the waste package.

Gamma irradiation of halite can produce sodium metal and free chlorine; however, the effect is very localized and experimentally documented only for total doses exceeding 10 million rads (Levy and Kierstead, 1982, BNL-32004; Panno and Soo, 1983). Also, if free chlorine does not evolve from the salt, the decomposition products may react back to form sodium chloride (Pederson et al., 1984). The radiolytic decomposition of halite has not been documented at the dose rate of approximately 20 to 40 rads per hour expected at the waste package surface (Jansen, 1985).

C.5.3 ROCK CHARACTERISTICS

This category addresses those comments and questions concerning the behavior of salt and other rock under repository conditions at the Davis Canyon site. This category corresponds to comments received on Section 6.3.1.3 and related sections.

Issues raised by the commenters include:

- Discussion of the salt material model
- Effects of discontinuities, heterogeneities, and impurities on rock mass behavior
- Variations in measurements of rock soil properties
- Repository geoengineering-related design concerns
- Performance of seals in the shaft

- Coupled-effects performance scenarios
- Definition of the extent of the disturbed zone.

Issue

Some commenters stated that a more detailed discussion of the salt material model and its implications is required. Areas that should be discussed include causes of uncertainty in model parameters, temperature dependency of model, and the significance of the material model, along with uncertainties related to the postclosure implications.

A commenter stated that, in particular, uncertainties related to the postclosure implications should be discussed.

Response

The DOE has considered the issue and Section 3.2.6.1 of the EA has been modified to include a description of the salt material model. Uncertainties in model parameters are given when a sufficient number of tests have been performed to allow the uncertainties to be determined.

Section 6.3.1.3 has been modified to reflect the following: the total deformation of salt can be divided into three components: elastic deformation, thermal expansion, and in elastic deformation. The salt material model includes elastic deformation and thermal expansion. These deformations are important for calculating thermal stresses following waste emplacement but are typically masked by the much larger inelastic deformations that results at the stresses, temperatures, and times of interest for a high-level nuclear waste repository. The inelastic deformation is primarily viscoplastic and is modeled by the Exponential-Time model. Uncertainty in the material model parameters result from both variability in the salt response measured in the laboratory and the lack of fit of the model.

Section 6.3.1.3.2 of the EA has been revised to state that the preliminary predictions of postclosure salt behavior lack precision because of the uncertainties in the salt material model and its parameter values. Qualitatively, however, a characteristic of salt is its ability to undergo large deformations without fracturing in the postclosure stress and temperature environment. This plastic behavior is independent of variations in impurity content for a wide range of distributions and concentrations commonly encountered in evaporite mineralogy. Therefore, although the actual material parameter values are not known with certainty, the physical behavior of salt will reduce the stresses over time and will limit or prevent fracturing.

Issue

Some commenters stated that the effects of discontinuities, heterogeneities, and impurities on rock mass behavior and rock mass characteristics need to be addressed, very specifically, the role and implications of the presence of carnallite in a host rock. These discontinuities, heterogeneities, and impurities were categorized as follows: joints and fractures in rock units, interbeds, gas and brine pockets, rock mass property anisotropy, and impurities that significantly affect rock behavior.

Response

The DOE has considered the issue and clarified the related discussions presented in Section 3.2.6 of the EA. The DOE has modified Section 6.3.1.3 in consideration of the following observations in particular emphasizing the uncertainty of the analyses.

The data on rock characteristics contained in Section 3.2.6 of the EA is generally limited to geomechanical and thermal properties of intact rock, together with a few small-scale in situ tests in a borehole to measure deformation characteristics. Some petrological and geochemical analyses have also been conducted on intact rock core samples.

The program of rock mechanics testing of intact rock samples to be conducted during site characterization has not been completed; therefore, the complete range of discontinuities, heterogeneities, and impurities have not been sampled (microfabric or large scale).

The response to the kerogen and carnallite in the repository host rock under elevated temperature conditions from the waste heat is discussed in Sections 6.3.1.2 and 6.3.1.3. Section 6.3.1.3 was clarified on the basis of information previously reported in the draft EA to reemphasize that the proposed repository lies outside of the depositional limit of potash salts; therefore, Salt Cycle 6 should contain lower concentrations of carnallite than that found in borehole GD-1. Limited data suggest that carnallite creeps very much like salt when heated at 200 C (392 F) for 30 days, a temperature significantly above the dehydration and melting temperatures of carnallite as reported by the commenter. Because of the relatively small amounts of carnallite, distance from repository horizon, and low permeability of salt, it is unlikely that any water released through dehydration of carnallite (which should be minimal for expected temperatures) would result in conditions other than those evaluated in the draft EA.

Concerning the existence of gas and brine pockets, only minute trace detections of gas were made in drilling for the environmental assessments at Paradox and no brine pockets of any size were encountered thus far during drilling.

Issue

A few commenters indicated that the rock and soil properties measurements presented may vary in several ways and that these variances should be discussed. These properties may vary between laboratory/in-situ test behavior and rock mass behavior or may vary among various locations, even if general characteristics appear quite similar. The source of these variations were suggested to be:

- Natural spatial variations from location to location, lack of a statistically representative number of measurements, or technical uncertainties in making extrapolations
- Variations between laboratory/in-situ test measurements and rock mass behavior, the effects of the scale of the area or specimen tested as compared to a large rock mass, or lack of statistically representative/spatially representative measurements
- Differences between test environment and actual repository conditions.

A commenter stated that, in particular, uncertainties related to the post-closure implications should be discussed.

Response

The DOE has clarified the discussion of rock and soil properties in Section 3.2.6 of the EA. The DOE has modified Section 6.3.1.3 in consideration of the following observations, in particular emphasizing the uncertainty of the analyses.

For the first aspect of the issue, it is agreed that there can be a variation in rock properties from one location to another and, except for some thermal properties, the mechanical properties reported in the draft EA are indeed based on a single, deep borehole, GD-1 in Gibson Dome, continuously cored to the repository horizon and below. All the thermal properties are reported from two boreholes (which include GD-1). It is considered that the wide, natural variability of the intact elastic rock media is already evident in GD-1.

For the second aspect of the issue, it is acknowledged that a great deal of uncertainty exists in selecting appropriate scaling factors to be applied to any laboratory test data in order to predict large scale rock mass behavior. The few in situ tests reported in the EA are useful but do not provide enough data for statistical analysis.

Concerning the third aspect of this issue, a further variation from the laboratory/in-situ test measurement to the rock mass behavior will occur due to differences between the test environment and actual repository conditions. One of the principal differences may be due to higher temperatures in the repository as a consequence of waste heat generation than previously modeled in the laboratory.

Issue

A few commenters noted that a number of repository geoengineering-related design concerns require addressing, specifically the effects of backfill on subsidence.

Response

The DOE has clarified Section 6.3.1.3 to reflect the following observations, and has specifically discussed the uncertainties in the analyses.

Backfilling the rooms will reduce the amount of room closure and ultimately the amount of subsidence as measured at the surface. Because of the high rate of room deformation, consideration should be given to backfilling the disposal rooms as soon as possible. Apart from reducing the overall subsidence at the surface, early backfilling will provide enhanced room stability should reentry become necessary.

In the short term, backfill will have a minor effect on the elevation of the ground surface. This is because insufficient time will have passed for subsidence to be complete and because any subsidence will be countered by thermal expansion of the rock mass due to heating by the waste packages. In practice, the combined effect of backfilling and salt creep into the underground workings should reduce the maximum uplift effect after about 1,000 years to below 0.6 meter (2 feet), and reduce the final amount of surface subsidence after the repository has cooled down.

In the postclosure time frame of greater than 50 years, the effect of backfill on subsidence and the elevation of the ground surface will become increasingly more significant. As the repository temperature begins to decrease towards normal ambient in situ temperature, the presence of backfill will reduce the amount of total subsidence.

Issue

A few comments stated the performance of seals in the shaft during construction, operation, and decommissioning needed investigation and that this should be discussed.

A commenter stated that, in particular, uncertainties related to the postclosure implications should be discussed.

Response

Section 6.3.1.3 has been modified to reflect the following observations and specifically discusses uncertainties in the evaluations.

Two types of shaft seals need to be recognized. One type will be installed during shaft construction to prevent the flooding of the underground workings by aquifers and also to prevent contamination of the aquifers themselves. A second type of seal will be installed during shaft decommissioning as the shaft is being backfilled. The purpose of this type is to prevent access of surface and aquifer water to the repository level and vice versa. The first type (construction time frame) is a preclosure seal whereas the second type (backfill) is a postclosure seal.

Commenters correctly noted that Gureghian et al. (1983, ONWI-494) neglected the disturbed zone around the shaft seal system. However, previous schematic designs have not ignored this issue and, for this reason, analyses of Gureghian et al. (1983, ONWI-494) were made assuming that main flow was through the seals only. Even if water flow short-circuited through a disturbed zone around the shaft-seals in the overlying non-salt units, flow would likely be blocked upon contact with the repository salt unit. The remoteness of the shaft seal system with respect to the repository further reduces the likelihood of flow reaching the repository. Expected creep closure of repository rooms reduces the likelihood of any flow from leaking shafts reaching the repository. In the planned sequential emplacement of the waste canisters and backfilling of storage rooms with crushed salt after waste has been emplaced, creep closure of the repository rooms will have been well under way before engineered closure of the repository occurs with sealing of the shaft. Additionally, the permeability of salt is effectively zero when the pressure is sufficient to deform the salt plastically (expected conditions).

The thermal pulse from the repository has been estimated to be 1 to 2 C (2 to 4 F) at the base of the shaft after 1,000 years. This small temperature change should have a negligible effect on the stability and deformation of the shaft, as well as minimal effect on the shaft seals. Accordingly, this issue is not identified as a concern in the EA.

Issue

A few commenters indicated that a number of coupled-effects performance scenarios need to be addressed more extensively. These scenarios include thermochemical effects on the engineering properties of the rock mass, thermo-hydrologic effects on the engineering properties of the rock mass, thermo-mechanical effects on the engineering properties of the rock mass (e.g., fracture healing), and thermal decrepitation or thermal fracturing behavior, as well as brine migration behavior and mining subsidence versus uplift due to thermal expansion of the rock mass.

Response

The DOE has reviewed the comment together with appropriate sections of the EA and supporting documents, and found that no modification of the conclusions in the EA are required. Section 6.3.1.3 and Appendix 6A have been modified to present the following observations and the associated uncertainties more clearly.

Large amounts of hydrocarbons will not be generated in the kerogen-bearing interbed overlying Salt 6 because the maximum temperature reached in the interbed will not be sufficient. Furthermore, the heat impact from the emplaced waste lasts only about 1,000 years, after which the temperature of the salt decreases almost to its initial temperature. This heating period is short relative to the natural heating episodes that produce natural gas and petroleum. Therefore, the amount of any additional overpressuring caused by heat from the emplaced waste is expected to be a minor effect.

The DOE has reevaluated the possibility that brine inclusions might move away from the waste and become a possible mechanism for radionuclide transport. Brine inclusions containing a vapor phase do indeed travel away from a heat source. However, once the intergranular boundary is reached, intergranular flow is expected to take over. Inclusions can actually cross crystal boundaries and continue to migrate as inclusions. This has been observed experimentally, but only under the influence of a large temperature gradient. The temperature gradients in a repository would be too small to drive this type of migration. Therefore the brine migration mechanism is not expected to contribute significantly to radionuclide release.

Regarding the criticism that intercrystalline migration may be controlled by pressure gradients rather than temperature gradients, so that use of the Jenks' (1979, ORNL-5526) equation is inadequate, it is very likely that pressure gradients are important to intergranular flow. The use of the Jenks' equation was originally proposed for both intergranular and intragranular flow based on experimental observation. Attempts to validate this theory using data from the Salt Block II brine migration experiment show that reasonable agreement with the data is obtained.

The DOE has also reexamined the concern that the threshold gradient case should not be used as the expected condition because of the controversy over the threshold gradient concept. Because the conclusions drawn in the draft EA analyses were essentially unaffected by this decision, and because of the strong theoretical arguments favoring the existence of a threshold gradient, the EAs continue to label the threshold gradient case as the expected condition.

The evidence discussed in Section 6.3.1.3 supports the finding that geochemical changes due to increased temperatures will not degrade carnallite of rock "strength" in excess of that expected for salt. Furthermore, the similar creep and "yield" behavior of carnallite suggest that carnallite will have many of the self-healing characteristics of salt. Finally, because of the relatively small amounts of carnallite, distance from repository horizon, and low permeability of salt, it is unlikely that any water released through dehydration of carnallite (which should be minimal for expected temperatures) should reach the waste package and increase corrosion.

With respect to the generation of brines and gases, the DOE has concluded that at the maximum salt design temperature of 250 C (482 F) and at the expected radiation levels that negligible amounts of new brines or chlorine gas will be generated, and that they will not pose a threat to the workers or the general public.

With respect to concerns noted about thermomechanical effects such as thermal decrepitation and fracture healing at Davis Canyon, no thermal decrepitation of the tested salt samples occurred up to a temperature of 450 C (842 F) (Senseny, 1983, ONWI-9[83-1]). This is considerably higher than the recommended design peak salt temperature of 250 C (482 F). There is no evidence to suggest that likely impurities in the salt in the vicinity of the waste packages would lower the temperature at which thermal decrepitation of the salt occurs to below 250 C (482 F).

Room-scale calculations discussed in Section 6A using a viscoelastic constitutive model, indicated that vertical closure along the roof-floor centerline would approach 0.5 meter (1.5 feet) in five years for 5.5-by-5.5-meter (18-by-18-foot) rooms in Paradox salt. In general, the closure that is measured is due to the slow creep of the salt into the excavation resulting in heaving of the floor, sagging of the roof, and convergence of the walls. These movements are generally predictable and are routinely handled in the mining process.

The effect of prolonged heating on the failure mechanism of salt tunnels is not well understood, because the empirical data base is limited. At Project Salt Vault, the floor area in Rooms 1 and 4 uplifted very rapidly when the heaters were turned on, but this uplift slowed to a nearly constant rate (Bradshaw and McClain, 1971, ORNL-4555).

The DOE concludes that thermomechanical calculations can reasonably predict the amount of room closure and far-field behavior due to creep in the salt host rock. However, these thermomechanical calculations are not very reliable when predicting the response of underground tunnels in the early stages of heating.

There are two principal mechanisms affecting movements within the rock mass and elevation changes of the ground surface above the repository. These are:

- Uplift caused by the thermal expansion of the rock mass due to heating by the waste packages
- Subsidence caused by the creep of the salt into the underground workings.

In the postclosure period, uplift caused by thermal expansion will reach a maximum of about 0.5 meter (1.5 feet) approximately 1,000 years after waste emplacement. After this time, cooling by ground surface convection and radiation will dominate and will act to return the ground surface to its original elevation.

Mining subsidence occurs in a time frame of tens of years (depending on salt characteristics, thermal load, room design and support system, and the amount and effectiveness of backfill), but its effects are relatively small and are masked by uplift due to thermal expansion. After the repository has cooled down, the subsidence effect will result in a small amount of overall permanent subsidence of less than 1 meter (3 feet).

Issue

Some commenters noted that the extent of the disturbed zone needs to be defined realistically. The major disturbances appear to be initially mechanical due to excavation but, later, thermal effects become significant.

Responses due to thermal disturbance consist of the following and should be addressed: change in thermal gradient, change in thermal flux, change in temperature, change in thermal properties of the rock mass due to temperature change, and the uplift of overlying rock mass due to thermal expansion.

Response

The DOE has considered the issue and clarified the related discussions in Sections 5.2.1 and 3.2.6 of the EA. Section 6.3.1.3 has been modified to reflect the following observations and specifically discuss uncertainties in the analysis.

The DOE has reviewed the existing data and believes that previous uplift and subsidence calculations have overestimated potential effects. Considerations of uplift and subsidence are mentioned in the previous response. The DOE plans no revisions regarding uplift and subsidence for the EAs.

The DOE has revised Appendix 6-A to clearly state that the description of the disturbed zone is preliminary, and to present the results of a reevaluation. The DOE has reviewed generic data for domal and bedded salts and has modified conclusions in the EA to increase the mechanically "disturbed zone" to about 15 meters (49.2 feet). The DOE has also revised the EA text to include a review of available generic information.

The question on whether salt "heated by radioactivity" would retain its self-healing properties, alludes to thermal decrepitation and effects of irradiation on the mechanical properties. The DOE has reevaluated the data and found no change of the EA is required.

Laboratory testing indicates confined salt specimens analogous to Paradox Basin salt start decrepitation (disaggregration) at temperatures of 450 C (842 F). The design temperature of a repository is 250 C (482 F), which is considerably less. The DOE has reviewed the data and performed new calculations. The DOE has rewritten the text and changed the conclusions as to the extent of thermal disturbance.

C.5.4 CLIMATE CHANGES

This category is concerned with general changes in climate which might occur after repository closure at the Davis Canyon site. This category corresponds to comments received on Section 6.3.1.4 and related sections.

Issues raised by the commenters include:

- Interrelationship of climate changes and dissolution rate
- Discussion of a possible "super-interglacial" period.

Issue

Two commenters noted that the interrelationship of climatic changes and dissolution rate changes is not adequately addressed.

Response

The evidence presented in Section 3.2.5.6 indicates that dissolution in the bedded salt area of the Paradox Basin, which includes the site, is likely to occur only in areas where the relatively impermeable strata overlying and underlying the salt beds has been disrupted. The EA discusses areas of known and possible dissolution, but the rate at which it is occurring or has occurred in the past is not presently known.

The means by which the dissolution rate would be affected by climate is through changes in the hydrologic system. An increase in precipitation which affected the hydraulic gradient could change flow rates and, consequently, dissolution rates.

The potential effect of increased precipitation on the hydrologic system is discussed in Section 6.3.1.4.1. Using the hydrologic characteristics of the Upper Hydrostratigraphic Unit, as presented in Section 3.3.2, a conservative assumption was made, in which future precipitation rates increase to the point where the water table reaches the ground surface in the Abajo Mountains. The resulting hydraulic gradient between the Abajo Mountains and the Colorado River is not significantly greater than the present maximum apparent hydraulic gradient estimated from GD-1 hydraulic tests. Therefore, it is unlikely that flow rates, and consequent dissolution rates, would be affected greatly by climatic changes.

Issue

One commenter noted incorrect quotations of guidelines.

Response

The DOE has included the full correct text of the guideline in the final EA.

Issue

One commenter requested inclusion of a discussion of a possible "super-interglacial" period suggested by Imbrie and Imbrie (1979).

Response

The DOE has checked the reference noted by the commenter and has added a discussion of the potential future climatic change due to an increase of carbon dioxide in the atmosphere (Section 6.3.1.4). This discussion addresses the "super-interglacial" effect proposed by Imbrie and Imbrie (1979) and more recent elaborations on or modifications of their scenario and others that have been proposed.

C.5.5 EROSION

This category addresses general concerns related to erosion at the Davis Canyon site. This category corresponds to comments received on Section 6.3.1.5.

Issues raised by the commenters include the following:

- Information about derivation and conservatism of erosion rates
- Possibility that the grabens could propagate north and east.

Issue

Two commenters requested information about the derivation and conservatism of erosion rates used in EA evaluations.

Response

The DOE has expanded the text of the EA in Section 3.2.2.2 to include the data base and rationale for derivation of erosion rates used. This data base includes sediment yield data, differentiation of rates relative to erodability of rocks within the drainage basin studied, and data supportive of derived cliff retreat rates. Additions also address other geomorphic processes, such as eolian, glacial, and mass wasting processes, and the rationale for assessing that these processes did not create potentially adverse conditions for repository waste containment. These data were referenced and summarized in Section 6.3.1.5.2.

Issue

One commenter expressed concern that the grabens could propagate north and east, and thereby disrupt a repository at Davis Canyon.

Response

The commenter was concerned that propagation of the grabens would disrupt the repository within 1 million years. The favorable condition (b)(3) for the DOE postclosure guideline 10 CFR 960.4-2-5 (Erosion), however, addresses the exhumation of wastes within 1 million years. By using the DOE projections of 200 to 300 meters (650 to 1,000 feet) of downcutting of the Colorado River in 1 million years, the river level in Cataract Canyon is projected to be around 865 meters (2,840 feet) mean sea level (MSL). The proposed repository elevation is approximately 675 meters (2,220 feet) MSL. Therefore, the repository horizon would still be below river level; additionally, the site is 24 river kilometers (15 river miles) from the Colorado River, and approximately 25 kilometers (16 miles) in a straight-line distance from Cataract Canyon. Elevations of tributary streams draining to the Colorado River at these distances would be substantially higher than the Colorado River in Cataract Canyon. At present, Davis Canyon is 390 meters (1,280 feet) (MSL) above the canyon bottom.

C.5.6 DISSOLUTION

This category addresses those comments and questions concerned with the effects of dissolution of salt, or potential dissolution, after repository closure at the Davis Canyon site. This category corresponds to comments received on Section 6.3.1.6 and parts of Section 3.2.

These issues were raised by the commenters:

- Discussion of the rationale for dissolution rates used in the EA
- The need for additional evidence on dissolution
- Description of potential dissolution features
- Further study on Needles Fault zone and grabens.

Issue

Several commenters felt that evidence presented in the EA is too general and inconclusive and that the analyses and findings for the guidelines do not reflect uncertainties in the data.

Response

The DOE recognizes that any data gathering techniques that are designed to locate dissolution features are subject to a size threshold below which such features cannot be detected. The evidence does not indicate the presence of dissolution features within the resolution limits of the techniques being used. While some uncertainties exist with respect to the presence of smaller dissolution features in the site vicinity, the DOE believes that if dissolution were an extensive or long-term process operating in the site vicinity, abundant and recognizable surface manifestations of such activity would have appeared in the

250 million years since the deposition of the formations exposed at the surface in the site area. The text of the EA has been revised in Section 6.3.1.6 to reflect these considerations.

Issue

A few commenters wanted a discussion of the rationale for dissolution rates used in EA analyses, including a justification for the use and choice of dissolution rates from areas outside the Paradox Basin.

Response

The DOE used dissolution data from other areas in its analysis because there is no indication within the area that dissolution features such as Lockhart Basin are presently active and no measured rates of dissolution advance were available from in the basin to use in making an evaluation. In Section 6.3.1.6.4, these rates are used only to provide a basis for comparison between known naturally occurring rates and a hypothetical calculation on the rates of dissolution that would have to exist if dissolution were to advance to the site from known dissolution features in the next 10,000 years. It is judged that this approach is reasonable in the context of the guideline being discussed. The DOE has expanded this section to clarify the discussion and consider other rates of dissolution advance found outside the basin. It should be noted that the principal conclusion of this section is not related to the worldwide dissolution rates but to the observation that if dissolution were advancing away from known dissolution features at the rates necessary to reach the site in 10,000 years, abundant indicators of such an advance should be present around these features, and that such indicators have not been observed.

Issue

Two commenters indicated that additional evidence on dissolution (from cores, geophysical studies, etc.) should be presented in the EA and be made available to reviewers.

Response

The DOE has revised Section 3.2.5.6 to provide more detailed data on the dissolution features observed in the candidate area and on the evidence supporting or refuting dissolution in the site vicinity. Discrepancies between the data available to the DOE and that reported by some commenters on the data available from certain boreholes (e.g., Placid Oil Company, No. DU-2 USA) were resolved.

Issue

Several commenters asked that possible or potential dissolution features be recognized, described in the EA, and included in guideline evaluations.

Response

The DOE has added more detail to the discussion in Section 3.2.5.6. Topics that were added or expanded include Lockhart Basin; Beef Basin; Shay Graben system; Needles Fault Zone; Salt Creek Pocket; chemical data from GD-1 water samples, and the possibility that these indicate nearby dissolution; location and origin of indicators of dissolution, such as breccia pipes; and evidence for the absence of dissolution in the site vicinity. Section 6.3.1.6 was revised to reference this additional data. The DOE believes that the additional data support the findings presented in the EA.

Issue

A few commenters noted that the Needles Fault Zone/Grabens should be studied further.

Response

Additional data on the Needles Fault Zone was added to Section 3.2.5.1. More detailed studies such as drilling or seismic reflection surveys to define the nature, age, and activity of the fault zone, could be conducted in the area of Cross Canyon and Bobby's Hole.

C.5.7 TECTONICS

This category addresses those comments relating to seismicity, faulting, and other tectonics issues concerning the Davis Canyon site after repository closure. This category corresponds to comments received on Section 6.3.1.7 and related sections.

Issues raised by commenters include:

- Approach to tectonic analysis
- Seismic design requirements for a repository
- Discussion of faults trending toward the site
- Volcanic eruptions as a threat
- Prediction of stability
- Salt movement within the Paradox Basin
- Studies in progress
- Classification of faults
- Inadequate seismicity record

- Discussion of the postulated seismic events and accelerations
- Earthquake analysis
- Ongoing salt flow
- Evaluation of interpretations from proprietary seismic data
- Period of observation
- Use of Richter magnitudes opposed to Modified Mercalli intensities
- Additional data presented for shocks near the grabens.

Issue

One commenter stated that the approach to tectonic analysis differs from that of the Nuclear Regulatory Commission (NRC).

Response

A formal NRC position on tectonic analysis is not available. The DOE believes no modification of the EA is required.

Issue

Some commenters stated that seismic design requirements for a repository should not be equated to those for nuclear power plants.

Response

The DOE has rewritten the text for clarity and has indicated that the expected levels of ground motion at the site are moderate in relation to design levels for some other nuclear facilities. The DOE has revised the EA in response to this comment in Section 6.3.3.4.3.

Issue

Some commenters stated that the EA should not state that the favorable condition (Section 6.3.1.7.2) definitely exists.

Response

The DOE has reviewed the text and has noted that the statement says the "evidence indicates." The DOE believes no modification of the EA is required.

Issue

Several commenters stated that the tectonic analysis does not discuss faults trending toward the site, discrepancies in stress measurements, growth

rates for the Gibson Dome and Indian Creek syncline, breccia pipes in Lockhart Basin, implications of seismicity along the Colorado Lineament, or the threat of induced seismicity.

Response

The DOE has rewritten the text for clarity and has indicated that proposed mechanisms for the origin of faults in the Needles Fault Zone suggest that the faults would not extend themselves to the site. Nor would the zone enlarge itself to include the site under the present tectonic conditions. The DOE has revised the EA in response to this concern in Section 3.2.5.1.

The DOE has augmented the text section on stresses and has emphasized that the two stress measurements are at different sites and different depths. The two measurements probably cannot be fully reconciled without additional data. The DOE has revised the EA in response to this concern in Sections 3.2.6 and 6.3.1.7.2.

The DOE has reviewed the data on Gibson Dome and the Indian Creek syncline and has modified the EA to include upper-bound estimates for growth rates (Section 3.2.5.5). Geologic data are not available to indicate current growth rates. However, the absence of geologic features characteristic of uplift can support estimates that recent growth can be no greater than estimated bounding values. The DOE has modified the EA in response to this concern in Section 6.3.1.7.2.

The DOE has modified the text and included a discussion of the role and presence of breccia pipes in Lockhart Basin. The DOE has revised the EA in response to this comment in Section 3.2.5.6.

The DOE has rewritten the text for clarity and has indicated that an in-depth analysis of the Colorado Lineament and the apparently associated seismicity cluster is not necessary at this stage of site evaluation. Tectonic analysis in the EA has taken a very conservative position by assuming that the maximum earthquake for the Colorado Plateau province could occur on features that are much closer to the site than the closest approach of the Colorado Lineament. The DOE has revised the EA in response to this concern in Section 6.3.1.7.

The DOE has reviewed the text and believes no modification is necessary to address induced seismicity in the discussion of the postclosure guidelines, because the repository will be fully backfilled. Induced seismicity is discussed in Section 6.3.3.4.3 under the preclosure guidelines, because induced earthquakes could be a hazard to underground operations and to the stability of the mine roof. In general, naturally occurring earthquakes postulated in the seismic analysis would have much stronger ground motions at the site than would induced earthquakes.

Issue

Some commenters stated that volcanic eruptions are a threat.

Response

The DOE has reviewed the text and determined that no modification is required in the discussion of volcanism. Volcanism would have to occur in the immediate vicinity of the site to have potential for disrupting long-term isolation. No young volcanism or potential for volcanism has been recognized closer to the site than about 80 miles (130 kilometers).

Issue

One commenter stated that stability cannot be predicted for 10,000 years because any major shift of the earth would cause widespread contamination.

Response

The DOE has rewritten the text for clarity and has indicated that projecting 10,000 years continued stability is not unreasonable when based on the same degree of stability exhibited over the past several hundred thousand years. Crustal movement from various causes could occur in the region or near the site without affecting containment. Only certain specific occurrences would affect containment and the probabilities estimated for such events are expected to be extremely low. The DOE has revised the EA in response to this comment in Section 6.3.1.7.2.

Issue

One commenter stated that examples of salt movement within the Paradox Basin show the salt is unstable.

Response

The DOE has rewritten the text for clarity and has indicated that all Paradox Basin examples of salt instability occur at places away from the Davis Canyon site and by mechanisms that are apparent. Conditions leading to instability mechanisms are not present at the site, except for the presence of small differential relief on the salt upper surface because of the Gibson Dome fold. The amount of differential relief is not judged to be sufficient to cause significant salt flow. The DOE has revised the EA in response to this comment in Section 6.3.1.7.3.

Issue

Some commenters stated that the EA must describe studies in progress.

Response

The DOE has considered the need to describe studies in progress and has determined such descriptions are not required to perform the analysis for the EA. The DOE believes that no modification of the EA is required.

Issue

One commenter stated that faults should be classified using the commenter's system.

Response

The DOE has reviewed the text and has determined that a fault classification scheme is not required for EA purposes. The suggested classification scheme could clarify the potential impact of some faults on tectonic analysis. However, such classification can represent an interpretive bias, not always evident, as decisions are made to place certain faults in one group or another. The DOE believes that no modification of the EA is required.

Issue

One commenter stated that Fault R in Figure 3-27 (Reflection Time Contours, Top of Mississippian) is not discussed in the text.

Response

The DOE has modified the text to include reference to Fault R. The DOE has revised the EA in response to this comment in Section 3.2.5.1.

Issue

Several commenters stated that the seismicity record is inadequate to indicate long-term hazard.

Response

The DOE has rewritten the text for clarity and has indicated that the seismicity data help indicate the current tectonic environment. However, the seismicity data are not used alone to estimate possible future earthquakes.

Maximum earthquakes that might affect the site are estimated using seismic, geologic, and tectonic data. The estimated earthquakes are larger than any regional shocks observed historically. The DOE has revised the EA in response to this comment in Section 6.3.1.7.3.

Issue

One commenter stated that the discussion of the postulated seismic events and accelerations is unnecessarily confusing.

Response

The DOE has rewritten the text for clarity and has emphasized two points. First, several hypothetical earthquake sources were analyzed. Second, the most conservative case from the analyses was taken as the maximum credible earthquake at the site. The DOE has revised the EA in response to this comment in Section 6.3.3.4.

Issue

One commenter stated that the earthquake analysis should be labeled as "conservative."

Response

The DOE has rewritten the text for clarity and has indicated that the analysis is "conservative," meaning that the assumptions favor a larger seismic event and a safer design. The DOE has revised the EA in response to this comment in Section 6.3.3.4.

Issue

One commenter stated that the earthquake analysis is incorrect because an incorrect distance was used.

Response

The DOE has rewritten the text and has corrected the term used to label the distance. The distance used in the earthquake hazard analysis is the distance to the repository operations area, which is the correct distance for estimating ground motions affecting repository structures or construction. The DOE has revised the EA in response to these comments in Section 6.3.1.7.1.

Issue

Some commenters stated that the potentially adverse condition in item (3) of Section 6.3.1.7.3 is present because earthquakes larger than those observed can occur.

Response

The DOE has rewritten the text for clarity and has indicated that the guideline is interpreted as relying on evidence of young faulting to estimate future large earthquakes, and on the record of historical seismicity as a baseline for seismic activity. Using these bases, the potentially adverse condition is found to be present, because Shay Graben may be found capable of producing a local earthquake larger than any observed historically. The DOE has revised the EA finding in response to these comments in Section 6.3.1.7.3.

Issue

One commenter stated that data in the Richton Dome EA comparing surface accelerations to underground damage in mines should be added to the Davis Canyon EA.

Response

The DOE has rewritten the text and has included a summary of the results of a paper by McClure (1981). The DOE has revised the EA in response to this comment in Section 6.3.1.7.3.

Issue

Some commenters stated that a fault may be present in Bogus Pocket, which lies just north of the site.

Response

The DOE has evaluated the data and has modified the EA to acknowledge speculation that a concealed fault may be present. The source of calcitic float rocks, one observation upon which the suggestion of a fault is based, is undetermined. Field reconnaissance along the cliffs of Bogus Pocket does not show any evidence of faulting, certainly not any displacements on the order of 70 meters (240 feet) as implied by a commenter whose basis was mountaintop elevations. The tops of North Six-Shooter Peak and South Six-Shooter Peak are much poorer indicators of structural offset than the stratigraphic horizons observed during the field reconnaissance. The DOE has revised the EA in response to these comments in Section 6.3.1.7.2, but believes that no modification to findings is required.

Issue

Some commenters stated that ongoing salt flow should be addressed as a potentially adverse condition.

Response

The DOE has reevaluated the data and has determined that no modification to the EA is required. The examples of salt flow in the Paradox Basin are localized rather than being a general characteristic of the basin. One criterion for site selection was the evident lack of local salt flow.

Issue

One commenter stated that the State of Utah cannot evaluate interpretations from proprietary seismic data until the data are given to the State.

Response

The DOE has made the proprietary data available to representatives of the State of Utah and the Nuclear Regulatory Commission at the offices of Woodward Clyde Consultants in San Francisco.

Issue

A few commenters stated that the period of observation is too short to use seismicity data for valid judgments.

Response

The DOE has rewritten the text for clarity and has indicated that the seismicity data represent known events and are valuable for several analytical purposes. Judgments are not made using the seismicity data alone, but by incorporating all available geologic and tectonic information. The DOE has revised the EA in response to this comment in Section 3.2.5.2.

Issue

A few commenters stated that Richter magnitudes should be used rather than Modified Mercalli intensities.

Response

The DOE has reviewed the text and determined that no modification of the EA is required. Earthquake magnitude and earthquake intensity measure different aspects of the earthquake phenomenon. The two approaches are complementary and not always simply related. Both values are not always available, but neither should be omitted in favor of the other. There are many magnitude scales. The term "Richter magnitude" should be used only for one magnitude scale applied to Southern California earthquakes. The correct and analogous term for other areas is "Local magnitude" which implies a magnitude scale defined similarly to Richter magnitude but calibrated for the seismic attenuation rate of the area.

Issue

A few commenters stated that additional data should be presented for shocks near the various grabens.

Response

The DOE has reviewed the text and figures and has modified Figure 3-24 (Principal Tectonic Features) to show the major tectonic features and faults in addition to the seismic events already shown. The shocks near the grabens are quite small, so only locations and magnitudes have been calculated. The earthquake evaluation has presumed, for EA purposes, that the grabens could be sources for large earthquakes. Analysis to determine the earthquake potential for the grabens requires field data to be acquired during site characterization, as described in Section 4.1.1.1. The DOE believes that no modification to the EA text is required.

Issue

One commenter stated that the bibliography does not contain the reference on the intensity scale as cited in the footnote to paragraph 3 in Section 3.2.5.2.

Response

The DOE has checked the bibliography and has added an entry describing the Modified Mercalli intensity scale (Wood and Neumann, 1931). The footnote to Section 3.2.5.2 has been changed.

C.5.8 HUMAN INTERFERENCE (NATURAL RESOURCES)

This category addresses problems of potential human interference, particularly related to exploitation of natural resources, raised in questions

and comments on the EA concerning a postclosure repository at the Davis Canyon site. This category corresponds to comments received on 6.3.1.8 and related sections.

Issues raised by the commenters include:

- Presence of potable water
- Future potential value of potash
- Hydrocarbon resource potential of the site
- Marker system.

Issue

One commenter felt that the presence of potable water above the repository should be addressed.

Response

The DOE reviewed the data presented in Section 3.3.3 and added detail on the current users of ground water and the potable ground-water resource in the site vicinity. The potential for adverse effects on ground-water sources was evaluated in Section 6.3.1.1. The additional data presented in Section 3.3.3 confirm that the finding, with respect to the favorable condition, is correct.

Issue

Several commenters noted that the future potential value of potash should be discussed.

Response

The DOE added more detail on the potash resource potential of the site vicinity. Resource evaluations, which can be used to indicate areas of future exploration, were added to Section 3.2.8.2.2. These data indicate that the resource potential of the site vicinity is relatively low compared to much of the rest of the Paradox Basin and that future exploitation is more likely to occur at other locations in the basin. However, the DOE recognizes the difficulty in speculating on the future value or exploitation strategy that may be used in the long term for any commodity. It was found in the draft EA that the favorable condition, with respect to potash, was not present, and the potentially adverse condition was present. The DOE believes that the data do not warrant a change in these conclusions. It should be noted that the potential for adverse conditions resulting from mining can only occur after the institutional controls and the institutions enforcing them have ceased to exist, and all knowledge of the repository from records and the permanent markers surrounding the site have disappeared. Thus, a severe setback in the course of civilization and subsequent recovery is presumed to be required for the scenario of

accidental mining intrusion to occur. The likelihood of such a sequence of events is very small. Additional discussion of the potential for disruptive events is provided in Section 6.4.2.6.

Issue

Several commenters felt the EA discussion is insufficient to discount the hydrocarbon resource potential of the site, and therefore, the possibility of human intrusion.

Response

The DOE added more detail on the petroleum resource potential of the site vicinity. Resource evaluations, which can be used to indicate areas of future exploration, were added to Section 3.2.8.1. These data indicate that the petroleum resource potential of the site vicinity is relatively low compared to much of the rest of the Paradox Basin and that future exploitation is more likely to occur at other locations in the basin. However, the DOE recognizes the difficulty in speculating on the future exploration strategy that may be used in the long term for any commodity. The EA concludes that the favorable condition, with respect to potential mineral resources, is not present, and the potentially adverse condition is present. A more specific discussion relating to hydrocarbon exploration potential was added to these discussions. Simple drilling of a borehole through a repository is not likely to be a major disruptive event as discussed in Section 6.4.2.6. Also, it should be noted that the potential for inadvertent drilling at the site will occur only after the institutional controls and the institutions enforcing them have ceased to exist, and all knowledge of the repository from records and the permanent markers surrounding the site have disappeared. Thus, a severe setback in the course of civilization and subsequent recovery is presumed to be required for the scenario of accidental hydrocarbon drilling intrusion to occur. Such a sequence of events is unlikely.

Issue

One commenter noted that the text of Chapters 3, 4, and 5 appears to be contradictory with respect to the potential for potash resources at the site.

Response

The DOE reviewed the discussion of potash resources in these chapters and revised it to make the terminology consistent and provide adequate definition of resource terms.

Issue

One commenter questioned the concept of using permanent markers to warn future generations not to disrupt a closed repository.

Response

A conceptual design of a marker system to be used at a repository site is required as part of the application for a license which the DOE must submit to the NRC before being allowed to begin construction. A detailed description of the measures to be employed to regulate or prevent inadvertent human intrusion after repository closure will be provided to the NRC as part of the application for a license to close the repository. At present the DOE has examined several concepts for permanently marking a site and for disseminating records of repository activities; no decisions on the approach to be adopted have been made. Section 6.3.1.8 of the EA has been expanded to describe the requirements for repository markers, and to provide reference to studies conducted by the DOE Human Interference Task Force.

C.5.9 POSTCLOSURE SITE OWNERSHIP AND CONTROL

This category concerns issues relating to ownership and control of the site at Davis Canyon after it has been used as a repository. This category corresponds to comments received on 6.2.1.1 and related sections.

Issues raised by the commenters include:

- Satisfying the siting guidelines
- Legal authority of the DOE
- Proximity to the Canyonlands National Park.

Issue

One commenter has questioned how the DOE can satisfy the siting guidelines relative to site ownership and control if, as indicated in EA Section 4.2.1.1, the DOE intends to file an administrative withdrawal for Bureau of Land Management (BLM) lands for a two-year period for site characterization activities.

Response

In its discussion of the preclosure and postclosure guidelines, the DOE acknowledges that a potentially adverse condition is present at Davis Canyon because Congressional action is required to permanently withdraw Federal land should Davis Canyon be selected as a repository site (Sections 6.2.1.1.3 [10 CFR 960.4-2-8-2] and 6.2.1.3.3 [10 CFR 960.5-2-2]).

Aside from the repository development stage (EA Sections 4.1.3.3, 6.2.1.1, and 6.2.1.3), the DOE will acquire land access for site characterization activities under a cooperative agreement with BLM. This is authorized under the Federal Land Policy and Management Act of 1976 (43 USC Section 1737). This cooperative agreement will be for a period necessary to perform required site characterization activities.

Separate and apart from land access required for site characterization, as the commenter notes, the DOE intends to protect additional (but less than 2,024 hectares [5,000 acres]) public land to assure its licensability, should the site be chosen for a repository, by means of an administrative withdrawal (EA Section 4.2.1.1). The Secretary of the Interior is authorized to withdraw public land for up to 20 years, and the DOE can and may request the same, if necessary (43 USC Section 1714). This would protect the land but not permanently transfer jurisdiction of the land to the DOE. This, as previously noted, can only be accomplished through Congressional action. In any event, for purposes of addressing the comment, the DOE is not required to exercise this jurisdiction at the site characterization phase of the process. Land ownership and control is required at the repository development phase, not site characterization, pursuant to the Nuclear Regulatory Commission regulation 10 CFR 60.121.

Issue

One commenter indicated that if ground-water travel times were incorrectly estimated, the restricted area would likely become larger and a greater area would be precluded from mineral resource development. Concern also was expressed about precluding mineral development in areas utilized for access to the site.

Response

The size of the controlled area was conservatively calculated (Chen and Raines, 1985) and as a result not considered likely to increase. At least surface development would not be allowed along access routes and this would be only during the operational stage.

Issue

One commenter requested the DOE provide the legal authority for the position that it can acquire privately owned land by condemnation for repository development purposes (EA Section 6.2.1.1).

Response

The Federal government has the right of eminent domain as an incident of sovereignty (United States v. Jones, 109 U.S. 513 [1883]). Both the Atomic Energy Act of 1954 (42 USC Section 2201[g]) and Department of Energy Act (42 USC

Section 7257) confer express property acquisition and condemnation authority upon the DOE.

Issue

A number of commenters have commented on the proximity to the Canyonlands National Park in relation to both preclosure guideline 10 CFR 960.5-2-2 and postclosure guideline 10 CFR 960.4-2-8-2 on site ownership and control. It is variously suggested that: (1) the restricted area or the controlled area could eventually extend to the Park; (2) the controlled area should be conservatively assumed to comprise the 10-kilometer (6.2-mile) regulatory maximum (per 10 CFR 60.2), which would bring it within the Park area; (3) alternate repository design proposals would extend the controlled area to the Park; (4) site characterization phase testing and investigations and postclosure monitoring would be required within the Park; and (5) any or all of these reasons render the site in direct conflict with the dedicated purposes of the Park and otherwise serve to disqualify the site on site ownership and control guideline grounds.

Response

The DOE does not expect that the Davis Canyon controlled area will extend to the park boundary for the following reasons. On a technically conservative basis, a minimum of 4,060 acres was recommended for the size of the site area (Chen and Raines, 1985). Because of the uncertainties involved in developing the recommended size for the controlled area, the DOE has added an additional margin around the recommended area to bring the site area up to the 5,760 acre size (see Sections 4.1.3.3 and 5.1.1.5). Preliminary analyses indicate that a site area of 5,760 acres would allow all EPA and NRC repository performance requirements to be met (see Sections 6.3 and 6.4). In the event that any extensions of the repository underground facility are required, they can be designed in a direction away from the park boundary. With respect to the concern over the need for site characterization activities in the park, Section 4.1.1 has been revised to describe in more detail the particular field activities. Based on the DOE's current understanding of data needs, the planned activities outside the park will adequately characterize the site.

C.5.10 POSTCLOSURE SYSTEM GUIDELINE

This category addresses questions related to overall performance assessment for a repository at the Davis Canyon site. Comments addressed Section 6.4.2, Preliminary Postclosure Performance Assessment, and 6.3.2, Postclosure System Guideline.

Issues raised by the commenters include long-term containment by the engineered-barrier system.

Issue

Many commenters questioned whether the engineered-barrier system and site can provide long-term containment and isolation and adequately protect future generations.

Response

The DOE has reexamined the EA text and has revised Section 6.4.2 to reflect the preliminary nature of the performance assessment calculations. In order to obtain a license to construct and operate a repository, the DOE will, at the time of license application, be required to demonstrate compliance with the applicable Federal regulations (10 CFR Part 60; 40 CFR Part 191). These regulations deal specifically with the long term containment and isolation to adequately protect present and future generations from the hazards associated with nuclear waste disposal. This demonstration will include evaluations of the proposed isolation system (including natural containment characteristics of the site itself). The multiple barrier concept which includes the engineered-barrier system and associated components such as a metal waste package will give additional assurances that the repository system that is ultimately constructed will be safe. A repository cannot be constructed until that assurance is provided. Specific concerns related to long-term containment and isolation are addressed in Section C.5.11, Assessment of Postclosure Performance.

C.5.11 ASSESSMENT OF POSTCLOSURE PERFORMANCE

This category addresses questions on the waste package, the "disturbed zone," temperature gradients, brines, and other parameters used in modeling repository performance at the Davis Canyon site. Comments are particularly related to Section 6.4.2, Preliminary Postclosure Performance Assessments.

Issues raised by the commenters include:

- Reliability of package lifetime predictions
- Inconsistencies in tables showing radionuclide concentrations
- Stresses around the waste package
- Boundary stresses
- Creep and thermal expansion
- Stress components generated by hydrogen
- Estimates of the disturbed zone
- Evidence supporting estimates
- Effects of anomalous zones or brine pockets
- Salt heated by radioactivity
- Movement of canisters
- Uncertainties associated with potential thermal dehydration
- Reliability of computer-generated radiation fields used in the EA
- Presence of carnallite in Salt Cycle 6
- Analysis of the types of waste forms and packages

- Uncertainties in brine composition
- Estimates of initial water content
- Size of brine inclusions
- Verification, validation, and documentation for all codes
- Uncertainties regarding BRINEMIG
- Uncertainties in thermal conditions, data, and models
- Implications of Darcian flow
- Effect of perturbations
- Inconsistencies in the discussion of salt permeabilities
- Sensitivity and uncertainty of analysis
- Potential disruptive effects of earthquakes
- Drilling for natural resources by future generations
- Human intrusion
- Performance of shaft seals and liners.

Issue

A few commenters questioned whether the package lifetime predictions, using uniform corrosion and bounding calculations of releases and release rates, and considering uncertainty in input parameters, are sufficiently reliable to assure that the U.S. Environmental Protection Agency limits and 10 CFR Part 60 guidelines will be met.

Response

The waste package predictions use the data currently available and are considered conservative. The text in Section 6.4.2.3.3 of the EA discusses non-uniform corrosion and the DOE has expanded this Section to further clarify use of uniform corrosion. The corrosion rates are sufficiently conservative for purposes of calculations made for the performance assessment analysis. The DOE will continue to conduct research on this question during site characterization to assure compliance with 10 CFR Part 60 and 40 CFR Part 191 prior to submitting a license application.

Issue

A few commenters stated that the tables showing radionuclide concentrations and release rates in Section 6.4.2.3.4 of the EA may have some inconsistencies which may lead to inaccurate conclusions regarding 10 CFR Part 60 and 40 CFR Part 191 requirements.

Response

The DOE has corrected errors noted by the commenters and in the tabulations and has included explanations of intermediate numbers to avoid misinterpretation of the results. There is a built-in, 5-percent, high bias in the radionuclide inventories because the original repository design was based on uninterrupted

irradiation in the reactor while the nuclide inventory used in the comparisons used a more realistic radiation history. The DOE's review of the tables of tabulated radionuclides has found small numerical errors and these have been corrected. The update of the EA results of the final EPA regulation 40 CFR Part 191 has also affected the comparisons of amounts released with the regulations. It is easy to misinterpret the meaning of the release rates as presented in the draft EA because inventories at the maximum inventory were ratioed to brine rates at 300 years. This has now been avoided by supplying extra columns of data in the final EA that show intermediate curie inventories and ratios at 1,000 years and 10,000 years in addition to 300 years.

Issue

Many commenters stated that stresses around the waste package may not have been adequately addressed.

Response

Appropriate EA text and figures have been changed to better address stresses around the waste package. The stress boundary conditions given in the figure, Stress Boundary Conditions at Waste Package Midplane, in Section 6.4.2.3.3 of the EA are conservative by more than the 25 and 35 percent as discussed in the text accompanying the figure. Since Loken et al. (1984) calculated normal stresses that were less, the figure has been revised downward in the final EA to conform to the assumptions stated there and to provide traceability from Loken's results. Furthermore, Loken et al. (1984) overestimated normal stresses when they incorrectly assumed that the waste package boundary stress equals lithostatic load at the time of contact between the waste package and salt after closure of waste package emplacement holes.

The floor of the excavated room above the waste package is expected to rise somewhat due to stress relief. Therefore, the stresses redistribute around the waste package and fall below lithostatic stresses less than a year after creep closure of the waste package emplacement hole (Dial et al., 1985). The purpose of the boundary normal stresses in the figure, Stress Boundary Conditions at Waste Package Midplane, in Section 6.4.2.3.3 is to show that the expected normal stresses peak before any significant corrosion has taken place. If future calculations show that the normal stresses may cause structural failure of the overpack a number of measures could be taken, for example, the overpack thickness could be increased or internal package voids eliminated to add structural support. Finally, the appropriate figures and discussions have been changed to show variations in axial stress and radial stresses as a function of time. The figure, Effect of Brine Rate on Corrosion of the Container, presents a comparison of corroded thickness with transient failure thickness of the overpack. The difference between lithostatic and maximum failure thicknesses has been normalized to equal the corrosion allowance to resolve the apparent inconsistencies.

Issue

One commenter doubted that the waste package could withstand applied stresses.

Response

The DOE has evaluated the relevant data and has concluded that no modification of the EA is required. Loken et al. (1984) concluded that current overpack designs may require additional thickness to withstand expected pressures. If future calculations show that stresses may cause failure of the overpack, the overpack thickness may be increased appropriately.

Issue

One commenter believes that Section 6.4.2.3 uses "verified" too strongly with respect to the creep law model when discussing the boundary stresses.

Response

The DOE has reevaluated the statement in Section 6.4.2.3.3 and changed it in the final EA to read, "An analysis of similar behavior at the Asse salt dome in Germany, showed the stresses to be always compressive, and verified a creep law model for repository conditions in that salt (Prij and Vons, 1984)."

Issue

One commenter felt that boundary stresses were not adequately considered in the analysis in Section 6.4.2.3.3 using the WAPPA code.

Response

The DOE agrees with the comment, but has not changed the EA because the mechanical model in WAPPA was not used, since this aspect of the waste package calculations was not expected to help differentiate among sites for EA purposes. Reported stresses only illustrated the combined effects of creep, thermal expansion, and lithostatic stresses. Loken et al. (1984) calculated the creep deformation from use of calculated deviatoric stresses in the salt surrounding the emplacement hole.

Issue

One commenter noted that the discussion of waste-package lifetime in EA Section 6.3.2.3.1 ignored the influence of creep and thermal expansion on external pressures on the waste package.

Response

The DOE has changed the text in Section 6.3.2.3.1 to note that there are other sources of external stress other than lithostatic load. In addition, the DOE has added a statement noting that the air gap around the waste package (Nelson and Fossum, 1985, p. 251) and the presence of room excavation (Dial et al., 1985) redistribute external stresses and reduce loads on the waste package.

Issue

Many commenters stated that stress components caused by generated hydrogen may not have been adequately addressed.

Response

Section 6.4.2.3.3 of the EA has been changed to include an analysis of the effect of hydrogen gas. During the period shortly after emplacement, generated hydrogen can escape from the emplacement hole which may or may not be promptly backfilled. Gas can continue to escape after backfilling and prior to consolidation of the backfilling material. If at a later time the reconsolidating salt begins to trap the gas, the increase in gas pressure will be limited by salt creep and stress redistribution (just as thermal stresses were relieved) and by diffusion of hydrogen gas through salt matrix.

Issue

Several commenters questioned estimates of the disturbed zone.

Response

The DOE has reviewed the data and modified the introduction to Appendix 6A to clearly state that (1) the EA presents a preliminary and conservative description of the "disturbed zone," that (2) the DOE has revised the disturbed zone estimate to 15 meters (50 feet), and that (3) "in view of the limited thermal, mechanical, and hydrologic data existing on the host rock at the site, estimates of the disturbed zone are very likely to be revised in the future. The extent of the disturbed zone may depend on the interaction of various thermal, mechanical, and hydrologic effects."

Issue

One commenter noted that other evidence supported estimates of a disturbed zone due to excavation, ten times greater than that presented in the EA. The commenter also recommended that the EA discussion be expanded to cover a comprehensive analysis of available generic information related to damage to salt rock walls and ceilings, and that the EA conclusion be modified as necessary.

Response

The DOE has reviewed generic data for domal and bedded salts and has concluded that estimates of the mechanically "disturbed zone" should be increased to 15 meters (50 feet). The DOE has also revised the EA text of Appendix 6A for clarity, and included the review of available generic information.

Issue

One commenter asked whether the 10 meters (33 feet) for the thermal-hydrologic effects, presented in Appendix 6A of the draft EA, represent the extra distance travelled in 10,000 years due to the effect of heat on flow, or the size of the thermal-hydrologic disturbed zone.

Response

The 10-meter (33-foot) result is the extent away from the heat source (the repository) within which ground-water flow in salt could conceivably be increased from normal as a result of increased thermal buoyancy from the waste heat (i.e., the extra distance ever traveled due to the effect of heat on flow). However, note that the previous issue and response described the DOE's revised estimate of the disturbed zone.

Issue

Several commenters stated that EA estimates of uplift will cause fracturing of overburden resulting in changes in flow paths that will greatly shorten estimated travel times of radionuclides, and possibly have a salinity or radionuclide impact on surrounding aquifers and rivers.

Response

The DOE has made no revisions regarding uplift and subsidence in the EA. Section 6.3.1.3 of the EA indicates that the expected uplift is 0.6 meter (2 feet). Section 6.3.1.3 also states that the related zone of potential tensile fracturing extends downward from the ground surface for 290 meters (951 feet). This depth is well above any of the salt stratigraphic units including the unit proposed as the repository horizon. Therefore, no fracturing patterns would reach down to the salt or the repository to create travel paths for water containing radionuclides or salt contamination.

Even if water flow short-circuited through the nonsalt units directly to the host salt, dissolution and flow through salt would likely be blocked because of the low permeability of salt and the absence of credible mechanisms under expected conditions to cycle fresh water in and out of the salt units.

Issue

Another commenter stated that Appendix 6-A of the EA should include an evaluation of the effects of "horizontal anomalous zones or brine pockets," "thermally induced creep and thermal stresses," and give more consideration to nonlinear effects. Also, the commenter stated that Barron and Toews (1963) had been cited incorrectly.

Response

The DOE has reevaluated the data and found that no modifications to the EA are required. First, current exploratory work and other data have indicated no reason to expect large brine pockets to exist at the potential salt sites. Second, thermally induced creep and thermal stresses (which can cause healing of fractures) should actually mitigate many of the deleterious effects of mechanical disturbance according to Tien et al. (1983, NUREG/CR-3129). Finally, the commenter incorrectly asserts that Barron and Toews (1963) do not refer to the depth of constant volume creep. Barron and Toews (1963, p. 122) state, "The fact that creep proceeds without change of volume between the 4-foot and 10-foot points indicates that during the period of observation, there is no significant change in material properties of the salt between these two depths."

Issue

Some commenters have questioned whether salt "heated by radioactivity" would retain its self-healing properties, and one commenter asserts that salt temperatures may be as high as 815 C (1,500 F). These questions allude to thermal decrepitation and effects of irradiation on the mechanical properties of salt.

Response

The DOE has reevaluated the data and found no change of the EA is required for two reasons. First, laboratory testing (Bradshaw and McClain, 1971, ORNL-4555) indicates confined salt specimens start decrepitation (disaggregation) at temperatures ranging from 260 to 370 C (500 to 698 F). Maximum expected salt temperatures will likely not exceed 300 C (572 F). Decrepitation reduces thermal conductivity of salt and may result in greater brine migration and corrosion of waste packages. Maximum salt temperatures among any of the seven potential salt sites will rise above 260 C (500 F) only within less than 0.5 meter (1.6 feet) of the surface of the waste package for a period of less than 20 years. Therefore, increased temperatures will disaggregate only a comparatively small volume of salt around the waste package. Second, Gevantman (1981, pp. 189-203) shows that irradiation of salt generally increases Young's modulus, reduces creep, increases hardness and ultimate tensile strength. Present evidence (Jansen, 1985; RRCIG 1983, ONWI-483) indicates that radiation will affect only a small volume of salt within a few decimeters of the waste package, and that this salt will only be affected to a small degree.

Issue

Some commenters alluded to the frequently stated contention that the canisters will move "and not stay put" as the salt heats up and becomes more "plastic" with salt melting at 200 C (392 F).

Response

The DOE has reevaluated the data and found that no changes to the EA are required.

Waste canisters will not move significantly for three reasons. First, salt does not melt until temperatures reach 801 C (1,474 F) (Weast, 1984, B-137, S-257). Second, experimental evidence from Project Salt Vault (Bradshaw and McClain, 1971, ORNL-4555, Figure 11.74a) and Avery Island (Van Sambeek et al., 1983, ONWI-190[5], Figure 25) show this movement is small or nonexistent. Horizontal movement is essentially zero and vertical (uplift) movements are less than 0.13 meter (5 inches) (due mainly to thermal expansion and stress relief). Dissipation of thermal stresses with time and consolidation of room backfill will reduce the final vertical uplift. Third, laboratory tests show that the "shear strength" (Pfeifle et al., 1983, ONWI-450, pp. 30-35) of salt even under heated conditions would prevent the canisters from sinking. Pfeifle et al. (1983, ONWI-450, Figures A.2 through A.7) show that under nonzero confining pressures and temperatures the "shear strength" of salt may increase slightly with axial strain (i.e., strain hardening) under short-term loading conditions. Only under conditions of low confining pressure and low temperatures should strain-softening or brittle behavior reduce the "shear strength." Expected long-term conditions of lower temperatures and higher confining stresses will increase the resistance of salt to shear stresses and prevent significant settlements of the canisters due to gravity.

Issue

One commenter believed there was an inconsistency in the EA regarding the closing and healing of fractures, and regarding data that indicated that fracture and dehydration of shale beds within the host rock are likely.

Response

The DOE has reviewed the EA and concluded that there is no inconsistency. However, the DOE has found that Section 6.3.1.3.1 may mislead readers by stating that decreases in saturation may lead to delamination of clay-rich interbeds and overall weakening of the rock mass. Because the DOE has found no data to support such a conclusion, the DOE believes the statement is speculative and the sentence has been removed. Section 6.3.1.3.3 correctly states that no thermally induced fractures are expected because of a small percentage of clay minerals within the host rock. In addition, the larger creep rate of salt at higher temperature should close any gaps that develop between the salt and shale as a result of dehydration.

Estimates of dehydration require detailed water-content data that will not be available until completion of site characterization. Temperatures of 100 C (212 F) or less will cause little dehydration if preliminary estimates of limited contents of clay (Hubbard et al., 1984) or other nonsalt materials (Hite, 1983, Figure 19; Drumheller et al., 1982, ONWI-277, p. 32) in the host salt are reasonable. Also, see Sections C.4.1.1.7 and C.5.2 of this comment response document for other discussions of dehydration.

Issue

One commenter believed that the EA did not consider the amount of carnallite present, uncertainties associated with potential thermal dehydration, and changes in rock strength due to changes in water content.

Response

The DOE has reevaluated the data and found no changes are needed in the EA for three reasons. First, EA Section 3.2.7.1 discusses the carnallite marker bed of Salt Cycle 6. The entire marker bed averages 2.4 weight percent of carnallite with some thin layers (1 to 2.8 centimeters [0.4 to 1.1 inches]) containing at least 50 percent carnallite. As indicated by Hite (1982, p. 7, Figure 2a), the proposed repository lies outside of the depositional limit of potash salts; therefore, Salt Cycle 6 should contain lower concentrations of carnallite than that found in GD-1. Second, limited data by Pfeifle et al. (1983, ONWI-450, pp. 29, 30, 39, Figure 4.7) suggest that carnallite creeps very much like salt when heated at 200 C (392 F) for 30 days. This temperature of 200 C (392 F) significantly exceeds the dehydration temperature of carnallite of 50 to 100 C (122 to 212 F) (Jockwer, 1981, p. 40) and "melting" temperatures of 130 to 165 C (266 to 329 F) as reported by the commenter. In addition, Pfeifle et al. (1983, ONWI-450, Figure 4.4, Table 5.2) show that the strength of carnallite varies with temperature in the midrange of possible "strength" data for salt. Consequently, these limited data by Pfeifle et al. (1983, ONWI-450) suggest that carnallite will creep and "yield" very much like salt, even at temperatures significantly in excess of the dehydration temperatures. Finally, calculations by McNulty (1984) show that temperatures in the carnallite marker bed 15.24 meters (50 feet) above the repository will reach a maximum temperature of 104 C (219 F) at 40 years and remain above 100 C (212 F) for a period of 40 years. The 104 C (219 F) temperature lies below the 130 to 165 C (266 to 329 F) "melting" temperature noted by the commenter and well below the 250 C (482 F) anticipated maximum repository temperature quoted by the commenter. The 250 C (482 F) temperature quoted by the commenter only applies at the surface of the waste package. Temperatures decrease rapidly with distance from the surface of the waste package.

In summary, existing evidence supports the finding that geochemical changes due to increased temperatures will not degrade carnallite rock "strength" in excess of that expected for salt. Furthermore, the similar creep and "yield" behavior of carnallite suggest that carnallite will have many of the self-healing characteristics of salt. Finally, because of the relatively small

amounts of carnallite, distance from repository horizon, and low permeability of salt (Tien et al., 1983, NUREG/CR-3129), it is unlikely that any water released through dehydration of carnallite (which should be minimal for expected temperatures) would reach the waste package and increase corrosion.

Issue

A few commenters questioned whether the computed radiation fields used in the EA are reliable enough and whether the effects are known well enough to support the conclusion in Section 6.4.2.3.3 of the EA of a small predicted effect of radiation on package lifetime.

Response

The DOE has corrected the radiation field in Figures 6-10 (Radiation Fields at Waste Package-Material Interface) and 6-11 (Radiation Fields at Waste Form-Container Interface) in Section 6.4.2.3.3 to correspond with those in Jansen (1985) and reviewed the references noted by the commenters. The differences between investigators is discussed in Jansen (1985). There is no change in the conclusion that the radiation field effect is negligible under design conditions. The EA text in Section 6.4.2.3.3 has been modified to indicate the conditions under which radiation fields can become important. The computed radiation fields in the draft EA reference (Jansen et al., 1984) are 10 times too low. This error was corrected in the revised waste package topical report (Jansen, 1985) and the causative errors in source terms were explained there. The errors have now been corrected in the EA Section 6.4.2.3.3 and the correction resulted in no significant computed change in the waste package lifetimes.

The DOE anticipates that the package surface dose at burial will be 20 to 40 rads per hour for both commercial high-level waste (CHLW) and spent fuel from pressurized-water reactor (SFPWR) packages. These doses are so low that interpolation between the effects at no dose and much higher doses predict increases of less than 1 percent in the corrosion rate, which is too low to be measurable (Kreiter, 1984, PNL-4250.4). Still, one cannot ignore all potential effects of radiation since appreciable uniform corrosion or local accelerated attack would reduce the shielding by the steel container and put the corroding fluid in contact with higher radiation fields. For the same average dose, Levy (1983) proposed that higher-energy, more penetrating radiation causes more damage than lower energy radiation. However, experimental evidence thus far does not show such an effect (Kreiter, 1984, PNL-4250.4).

Issue

A few commenters questioned whether the presence of carnallite in Salt Cycle 6 would cause accelerated corrosion greater than that assumed in the waste package failure analysis in Section 6.4.2.3.3.

Response

The DOE discusses their review of the influence of carnallite on accelerated corrosion in Sections C.4.1.1.7 and C.5.2 on geochemistry of this comment response document (CRD). These CRD Sections indicate that neither the magnesium content nor the volume of brine available for brine migration would be seriously impacted by the presence of the carnallite in Salt Cycle 6. The EA assumptions of a brine with high-magnesium content and a quantity present of 5 volume percent are shown to be reasonable. Thus, no revisions of the waste package corrosion analyses in Section 6.4.2 were made.

Issue

Many commenters questioned (1) whether the environment immediately surrounding the waste package is sufficiently predictable to estimate the corrosion rates, leach rates, and solubilities for use in calculations; (2) whether the uncertainties in the available data at the assumed conditions make the conclusions drawn in the EA, with respect to waste package performance, invalid; and (3) whether waste package performance during the preclosure and immediately after closure periods can be ignored.

Response

The DOE has revised Section 6.4.2.3 of the EA to more clearly acknowledge the current uncertainty by stating that it may be necessary to modify (e.g., increase the thickness of the container wall) the design described in the EA to meet the regulation for package lifetime (10 CFR Part 60). This is described briefly in the next two paragraphs.

It is generally not possible at this time to prove conclusively or to assure that the waste package performance will meet applicable regulations with respect to waste package corrosion and radionuclide release rate because the corrosion rates, leach rates, and solubilities in the brine to be encountered are too uncertain. One purpose of the EA is to show that a conceptual design exists that could meet the regulations with reasonable values of those parameters. As site characterization proceeds (if this site is chosen for characterization), the uncertainty will decrease, but the expected values or the uncertainties thereof may shift in a way that requires design changes to ensure that regulations are met.

For this site, the container wall thickness used in the calculations in Section 6.4.2.3.3 was only two times as thick as the predicted corrosion, taking into account the limitation on gross brine volume available at the repository temperatures and at the expected upper limit of moisture content in the salt at this site. The quantity of brine available by thermal migration is insufficient by a factor of two to uniformly corrode through the corrosion allowance. Therefore, a factor of two, if introduced by (1) an increase in brine volume available, (2) a nonuniformity of brine distribution, or (3) a deviation from uniform corrosion by, for example, accelerated attack near welds, could change

the expected package lifetime from thousands of years to less than 300 years. This conclusion itself is valuable information obtained from the EA analysis and has been included by modified wording in the EA. The DOE agrees with the commenters that the uncertainty in the models themselves is currently too great to assure containment. However, it seems inappropriate to create and use more complex models while using hypothetical estimates of data. The models themselves must be refined as new site data and experimental data are gathered. However, assuming the conservative case of saturated brine, without taking into account that most of the water in the brine would be destroyed by reaction, all but the most highly soluble radionuclides would still meet the regulation for engineered subsystem release rates (10 CFR Part 60) with at least 10 times the increase in the estimates of the solubilities. This degree of uncertainty in solubilities is likely only for redox sensitive elements, for which the uncertainty is due to the lack of a specified emplacement procedure and a model for predicting the corrosion environment during preclosure and immediately following closure rather than the specific uncertainty in solubility measurements.

Issue

A few commenters stated that the EA should provide an analysis of the various types of waste forms and packages, including transuranic waste (TRU), that a repository might have.

Response

The DOE has reviewed the applicable data and has not modified the EA because the EA analyses are considered to be bounding. The EA provides analyses of only spent fuel and commercial high-level waste forms because they generate more thermal power, produce higher radiation fields, contain higher inventories of radionuclides than defense high-level waste or transuranic waste (TRU) and are, therefore, sufficient to discriminate between the suitabilities of different sites for waste repositories. The Mission Plan (DOE/RW-0005, 1985, pp. 8, 22) describes our current understanding of the types of waste that may go into a repository, including defense high-level waste and other wastes (for example, perhaps TRU) determined by the Nuclear Regulatory Commission to require permanent geologic disposal.

Issue

Some commenters stated that uncertainties in brine composition, especially with respect to a much higher magnesium (Mg) content, should be considered in estimating waste package performance. Commenters also said a high-magnesium intrusion brine scenario should be considered as a realistic possibility.

Response

Site-specific brine compositions are not well known at present. They can only be determined as a part of site characterization. Magnesium has been identified as having an important effect on corrosion rates in brines. Corrosion data are presently available only at two magnesium concentrations shown in the Table 6-28 (Compositions of Simulated Salt Brines Used in Corrosion Tests) in Section 6.4.2.3.3, so predictions were made using these values. The range of magnesium concentrations represented between these two values is thought to be representative of the range in nature, therefore, it is very unlikely that a more corrosive brine would provide a more representative analysis.

Some uncertainty can be tolerated in the corrosion rates and if later information shows that the corrosion rates are much higher than those used in the EA, the repository and waste package designs will be modified appropriately. The corrosion rates could be lowered, for example, by lowering the thermal loading in the waste packages or by placing a magnesium scavenger in the packing surrounding the package if magnesium is determined to be the problem. Alternatively, the corrosion allowance around the waste package could be increased, or a more corrosion-resistant material could be used in the waste package design.

The intrusion brine scenario in Section 6.4.2.3 of the EA assumes an infinite quantity of brine to be available, passing rapidly through the repository. Intrusion brines are expected to be of low magnesium content because large amounts of rapidly flowing water would not have the opportunity to become saturated with respect to magnesium. Although not considered a likely scenario, calculations were made for unlimited high-magnesium brine for all salt sites. The results are provided by Jansen (1985). If a reason is found for expecting a large amount of high-magnesium brine at the repository horizon, a waste package can be designed to accommodate this, as described above.

An additional comment was that the DOE should have performed a more demonstrably conservative analysis. Conservatism was not a goal in every case of the detailed analyses. Rather, the aim of the analyses presented in Section 6.4.2.3.3 of the EA was to determine whether the sites warranted further consideration. The cases of very conservative analyses using unlimited quantities of high-magnesium brine provide an indication of the lower bound on package lifetime, as noted in Section 6.4.2.3.3 of the EA.

The DOE's review of the discussions of boundary conditions at the package surface revealed no evidence in Section 6.4.2.3.3 that any brine inclusions encountered will likely be low-magnesium brines contrary to the interpretation of one commenter. The text states that inclusion brines are expected to have a high magnesium content, as opposed to intrusion brines, which are expected to be of low magnesium content, for the reasons described in previous paragraphs.

The DOE intentionally performed calculations of release rate from engineered barrier subsystems for only one scenario in Section 6.4.2.3.4. The NRC regulation, 10 CFR 60.113 specifies anticipated processes and events are to be assumed. The expected condition for this site that is a result of the anticipated processes is thermally migrating high-magnesium brine which is the scenario assumed for the calculations.

Issue

Some commenters noted that estimates in Section 6.4.2.3 of initial water content may be low rather than conservatively high, especially in a localized region, which could lead to overly optimistic estimates of waste package performance. A commenter also suggested that the EA be revised to include discussion on the ramifications of large brine pockets on waste package stability.

Response

The DOE did not change the EA text because, according to evidence presented in Section C.5.2 of this document, the average water content of 5 volume-percent which was assumed for the site in waste package performance assessments is reasonable, based on preliminary core analysis from the site vicinity. Rather than try to characterize the local variability, for which there is insufficient information at this time, worst case estimates of waste package lifetime are presented in Section 6.4.2.3.3 of the EA assuming unlimited available brine. These analyses show that even for this unrealistic case a waste package can be designed to last for 300 years by providing a sufficient corrosion allowance in the waste package design. (Results in both high- and low-magnesium brines are presented by Jansen [1985].)

If areas containing brine pockets are identified during repository development, the DOE expects to be able to emplace waste proximate to localized brine pockets, if present, without significantly affecting the water content of the nearby salt in which the waste is emplaced. Without an effect on water content of nearby salt, the presence of large brine pockets would not affect waste package stability.

One reviewer pointed out that Hite (1983), which was referred to in Section 6.4.2.3.2, presents data on bound water, not free water. The conservative assumption was made that all water is free to migrate. The text in Section 6.4.2.3.2 has been modified to clarify this point.

Issue

A few commenters noted that statements concerning the size of brine inclusions, their motion with respect to a thermal gradient, and the motion of the brine through and across crystal boundaries appear to be incorrect.

Response

The DOE has reevaluated the pertinent data and believes that modification of the EA is not required. This evaluation is discussed in the following paragraphs.

The inclusions can actually cross crystal boundaries and continue to migrate as inclusions. This has been observed experimentally, but only under

the influence of a large temperature gradient. Jenks (1979, ORNL-5526) concluded, on the basis of experimental and theoretical considerations, that the temperature gradients in a repository would be too small to drive this type of migration.

The DOE reviewed the concern that brine inclusions moving away from the waste package provide a possible mechanism for radionuclide transport. Brine inclusions containing a vapor phase do indeed travel away from a heat source. However, once the intergranular boundary is reached, intergranular flow is expected to take over, just as it does for all liquid inclusion migration. This mechanism is, therefore, not expected to contribute significantly to radionuclide release.

The DOE also considered that intercrystalline migration may be controlled by pressure gradients rather than temperature gradients, so that use of the Jenks (1979, ORNL-5526) equation may be inadequate. It is likely that pressure gradients are important to intergranular flow. Jenks originally proposed the use of his equation for both intergranular and intragranular flow based on the experimental observation that inclusions seem to become trapped at intercrystalline boundaries, thereby slowing the rate of brine migration to less than that predicted by the Jenks equation. Therefore, estimates of brine flow made using the Jenks equation should be conservative. Attempts to validate this theory using data from the Salt Block II brine migration experiment, however, show that reasonable agreement of the Jenks equation with the data is obtained (McCauley and Raines, 1985), thus suggesting that retarding grain boundary influences may be minor.

The DOE reconsidered whether the threshold gradient case should not be used as the expected condition because of the controversy over the threshold gradient concept. Because the conclusions drawn in the EA analyses were essentially unaffected by this decision, and because of the strong theoretical arguments favoring the existence of a threshold gradient, the EA was not changed relative to its label in Section 6.4.2.3.2 of the threshold gradient case as the expected condition.

The DOE considered the concern that the Jenks equation is not sufficiently conservative, perhaps by as much as two orders of magnitude, and that calculations derived from theoretical considerations of the sodium chloride-water system are invalid for systems in which significant impurities are present in the inclusions (such as organic carbon). The main reason for using the Jenks equation was its ability to simulate the Salt Block II data. As for uncertainties, as the predictions of waste package lifetime in Section 6.4.2.3.3 indicate, a great deal of uncertainty can be tolerated in the predictions of brine accumulation at the waste package. Indeed, a waste package could even be designed to withstand unlimited quantities of high-magnesium brine, according to data available at present.

The DOE reconsidered three concerns pertaining to salt properties. One concern is that salt has void spaces, but it is not clear whether they are interconnected. Another concern was that salt is not homogeneous and isotropic, as was assumed for the calculations of brine accumulation. A third concern is

that the natural variability of naturally occurring salts makes them difficult candidates for experimental measurements. Void spaces in pure salt are not well understood. Movement of brine through the intergranular void spaces is also not well understood, but would be decreased by any lack of interconnectedness in the pore spaces. The natural variability of salt can be dealt with in modeling when better site-specific information becomes available. This natural variability requires that a large number of site-specific measurements be taken to properly characterize the salt, but in no way makes the measurements more difficult.

The analyses in Section 6.4.2.3.2 regarding brine inclusions do not consider or apply to "brine pockets." Brine pockets are relatively large volumes of entrapped brine which are found in some salt deposits and have accumulated in the intergranular spaces since the formation of the deposit. Brine inclusions were entrapped inside the crystal (intragranular) at the time of formation of the deposit and are generally relatively small in size.

Issue

A few commenters stated that verification, validation, and documentation should be provided for all codes which support the decision-making process.

Response

Verification, validation, and documentation will be provided for all codes which support the decision-making process.

Supporting documentation is available for performance assessment codes used in support of the final EA. This documentation includes, as a minimum, information about input data, sources of the input data, and model limitations. Documentation will be provided to the level of detail specified by NUREG-0856 (Silling, 1983) for any code used to support a license application before the Nuclear Regulatory Commission (NRC). The DOE recognizes that code verification and validation are needed before a code is used in support of a license application. Peer review is recognized to be an important part of establishing the validity of a particular modeling effort, and will be used as a part of code validation for codes used in support of licensing.

The DOE also recognizes that data requirements should not be established solely on the basis of the present modeling effort because of the acknowledged need for a better understanding of many of the processes being modeled, and is establishing data needs accordingly.

Issue

Some commenters stated that uncertainties and assumptions regarding BRINEMIG and the application of its results should be considered in more detail in Section 6.4.2.3.2 of the EA.

Response

The DOE has reviewed Section 6.4.2.3.2 and has concluded that no change in the text is required. However, the BRINEMIG code was developed using assumptions about brine movement which do not realistically describe the movement of brine in salt. These assumptions and other uncertainties regarding BRINEMIG are discussed in the following paragraphs.

The salt is not homogeneous and isotropic, and flow is not expected to be only thermally driven or only in the radial direction. A related issue of this comment response document discusses statements made relating to brine inclusion migration and the rationale behind them. Therefore, this issue focuses on the code BRINEMIG. McCauley and Raines (1985) discuss the BRINEMIG code and its application to high-level nuclear waste repositories in some detail. The principal rationale for developing the model was the observation made by Jenks (1979, ORNL-5526) that inclusions seem to become trapped at crystal boundaries, so predictions made with the Jenks equation should give conservatively high brine migration rates. Further justification was provided when the model was able to approximately predict brine migration rates in the Salt Block II experiment. How applicable the Salt Block II code runs are to a high-level nuclear waste repository at this site has yet to be established.

Predictions of waste package lifetime have shown that a tremendous amount of uncertainty in brine migration rates can be tolerated. Indeed, very long expected package lifetime could be achieved in unlimited high-magnesium brine by providing a sufficient corrosion allowance in the waste package by design.

McCauley and Raines (1985) present a study which shows how sensitive BRINEMIG code results are to the temperature and temperature gradient profiles assumed for the salt. The results indicate that the temperature gradients around the waste package have a more profound influence on brine movement in the range of interest than salt temperatures. The only other input parameter which describes the waste package surroundings in the BRINEMIG code is the initial moisture content of the salt. The amount of flow generated by BRINEMIG is directly proportional to the moisture content.

Issue

Several commenters noted that uncertainty in thermal conditions, data, and models may not have been adequately addressed, possibly leading to overstated confidence in calculated corrosion rates, etc.

Response

The DOE has made calculations regarding the verification of TEMPV5 and reviewed other pertinent information. The DOE believes that only minor modification of the EA is required. The results of this review and analysis are described briefly in the following paragraphs.

The DOE reviewed the contention that TEMPV5 could not model heat transfer in salt because it used an analytical solution of finite line sources in a homogeneous, isotropic, and infinite medium to model individual waste packages. However, TEMPV5 does not assume a homogeneous medium (a medium whose properties are constant throughout) because it allows thermal conductivity to vary with temperature throughout the infinite isotropic medium (a medium where properties do not vary with direction at a point). TEMPV5 cannot model a layered medium. The EA has been modified to clearly state that TEMPV5 allows thermal conductivity to vary with temperature.

TEMPV5 varies thermal conductivity with temperature by using a transformation technique described by Carslaw and Jaeger (1959, pp. 10-11). The transformation does not account for the temperature dependence in the thermal diffusivity. However, McNulty (1985) has shown that the variation in diffusivity over the expected range has little effect on the salt temperatures in the vicinity of the waste package. The following discussion provides justification for the conclusion that TEMPV5 adequately models the thermal conditions around a waste package.

To check the calculational algorithms used in TEMPV5, HEATING6 (Elrod, et al., 1981) and THAC-SIP-3D (Turner, 1978) were set up to simulate the infinite, isotropic medium used in TEMPV5. The results showed that TEMPV5 gives excellent agreement with HEATING6 and THAC-SIP-3D.

The TEMPV5 results were also compared with the STEALTH and SPECTROM-41 results. The STEALTH and SPECTROM-41 models included the repository opening and nonsalt stratigraphy where TEMPV5 does not. The TEMPV5 results agree to within about 10 C (50 F) with the STEALTH and SPECTRUM-41 temperature profiles. Sensitivity studies described in the following paragraphs show that the uncertainty in the thermal conductivity far outweighs the uncertainties in the thermal modeling described above.

The DOE reviewed the suggestion that uncertainties in thermal data, in particular the 40-percent increase in thermal conductivity, were not adequately addressed or conservative. The DOE has reevaluated the data and concluded that no changes are needed in the EA. The data used in the analysis in the EA consisted of thermal properties (Lagedrost and Capps, 1983, BMI/ONWI-522), waste package parameters (Westinghouse, 1983, ONWI-438, Tables 1-2, 1-3), and baseline repository inventory and design parameters (SCC, 1984, Tables 5-1, 5-2, 5-3). Uncertainty exists in thermal conductivities and ambient at-depth temperature, with the thermal conductivities having the largest uncertainty. Currently available data make it difficult to evaluate these uncertainties in thermal conductivity. Duffey (1980, SAND79-7050, pp. 3-7, 59) has observed lower thermal conductivities in the laboratory than in the field. Sampling disturbance of the kind reported by Lagedrost and Capps (1983, BMI/ONWI-522, p. 9) can reduce thermal conductivities measured in the laboratory. In addition, Sass et al. (1983a, Table 1) report thermal conductivities about 50 percent higher than those found by Lagedrost and Capps (1983, BMI/ONWI-522) for one group of salt specimens taken from the same borehole and salt horizon. Sass et al. (1983a) used the needle probe technique, whereas Lagedrost and Capps (1983, BMI/ONWI-522, p. 123) used a steady-state heat flow meter. Consequently,

Loken et al. (1984, Figure D-3) have suggested a 40-percent correction in laboratory thermal conductivities. Any site-specific heterogeneities could also cause uncertainty in salt thermal conductivities. The use of thermal conductivities not corrected for sampling disturbance and testing technique (i.e., ignoring a 40-percent increase) could raise maximum predicted temperatures by an additional 120 C (248 F) for CHLW and 60 C (140 F) for SFPWR. These increases in temperatures would increase total brine flow and waste package corrosion significantly and might indicate the desirability of reducing individual package heat loads. However, given the experience that laboratory measurements underpredict thermal conductivity by 40 percent or more, the use of the adjustment suggested by Loken et al. (1984) seems entirely appropriate. The DOE has reviewed the concern about this correction and concluded that it would not necessarily be conservative to use the lower and uncorrected laboratory thermal conductivities. Uncorrected laboratory thermal conductivities of salt would certainly overpredict temperatures on the surface of the waste package. However, uncorrected thermal conductivities would also underpredict (hence, be nonconservative) the near-field and far-field temperatures used to calculate room closure, and the uplift/subsidence of overlying strata due to creep and thermal expansion. Consequently, the DOE used its best engineering judgment to select the most balanced thermal conductivities for use in the thermal analyses. Finally, uncertainty in the geothermal gradient for this site varied between 10 to 30 C (18 to 54 F), per-kilometer depth (Sass et al., 1983b, Figure 1). For a similar bedded salt formation, the ambient at-depth temperature varied by about 3 C (5 F) (Dutton, 1980, Figure 39). Therefore, the uncertainty in ambient temperatures appears to have little effect on calculated temperatures. In summary, for the purposes of the environmental assessments, the thermal conditions presented in Section 6.4.2.3.1 are appropriate.

The DOE has reviewed the concern that the melting temperature of salt is 200 C (392 F). The DOE concludes no change is needed to the EA because Weast (1984, pp. B-84, B-142) gives the melting temperature of pure salt as 801 C (1,474 F), which is far in excess of any maximum expected salt temperatures.

The DOE has reviewed the concern that nuclear waste will heat the salt and may cause brine flows that will convect contaminants to overlying and underlying aquifers. The DOE has reexamined relevant data and concluded that the EA needs no changes for three reasons. First, the extremely low permeability of salt (Tien et al., 1983, NUREG/CR-3129) will prevent convection from occurring within the salt. Second, the major movement of brine due to temperature gradients will likely be towards, not away, from the waste package (McCauley and Raines, 1985). Third, the vertical distance to the farthest extent of the 100 C (212 F) isotherm is calculated to be 20 meters (66 feet) for any bedded salt site, which is still short of reaching the nearest major nonsalt interbed. Therefore, the effects of heat on the overlying and underlying aquifers will likely be minimal.

The DOE has examined the concern that waste material will reach temperatures of 815 C (1,500 F) and whether this temperature would adversely affect the host salt. The DOE has reviewed the relevant data and concluded that no changes are required in the EA. Loken et al. (1984, Figure 6-1) show that maximum canister temperatures at the center of the waste package will not exceed about 420 C (788 F). In addition, Loken et al. (1984) show that temperatures rapidly

decrease with distance from the centerline of the waste package. Finally, McNulty (1985) shows maximum expected salt temperatures will not exceed 300 C (572 F) at the surface of the waste package and will decrease to below 200 C (392 F) within 1 meter (3 feet) of the package. Consequently, thermal decrepitation (disaggregation) of salt, which may begin between 260 and 320 C (500 and 608 F) (Bradshaw and McClain, 1971, ORNL-4555), will affect only a small volume of salt.

Issue

A commenter questioned why, in Section 6.4.2.3.5 of the EA, free-surface, ground-water boundary conditions for the uppermost hydrostratigraphic unit were used in the Permian analysis but not for the similar Paradox analysis. It was also questioned whether using fixed head boundary conditions would present defensible velocity calculations and correct transmissivities.

Response

The DOE has examined the text and believes that no modification of the EA is required because the DOE has insufficient data in the Paradox Basin to do a free-surface, ground-water boundary condition analysis whereas sufficient data are available currently for the Permian Basin. Either recharge or heads may be specified as surficial boundary conditions. If recharge is specified, simulated heads are compared to observed heads as a measure of the goodness-of-fit to validate the model. If heads are specified, simulated recharge rates are compared to "observed" recharge rates as a means of model calibration. A fixed head boundary is used in the Paradox Basin due to the absence of measured recharge rates. Given the paucity of potentiometric data it is difficult to validate the flow regimes in the surficial aquifer; however, calculated recharge rates were examined for "reasonableness" in the Paradox Basin area.

The simulations, with best estimate fixed head boundaries and reasonable recharge rates, given in the EA as described above, provide reasonable and defensible velocity distributions and transmissivities. Moreover, given the depth of the potential repository, minor fluctuations of the surficial aquifer provided by a free water surface will have no detectable effect on the velocity distribution at repository depth.

Issue

Many commenters stated that the effect of travel paths, other than the draft EA reference case in Section 6.4.2.3, on the ground-water calculations to the accessible environment, needs additional evaluation and discussion.

Response

The DOE reviewed alternate travel paths that should be considered in evaluating the geohydrology postclosure technical guideline (10 CFR 960.4-2-1). The principal travel path identified in the draft EA in Section 6.4.2.3.5 is downward flow from the host salt followed by lateral flow in the Leadville limestone to the accessible environment. The DOE has reviewed the text and determined that while the most likely travel path is presented in the EA, alternative travel paths may exist. The DOE has therefore modified the EA to include additional analyses to determine alternate travel paths and recalculated travel times from the disturbed zone to the accessible environment according to these new travel paths.

The DOE recognizes concern over the potential contamination of potable water supplies. EPA regulations and postclosure technical guidelines do not permit significant contamination of potable water supplies by radionuclides harmful to humans. The DOE will comply with such regulations for the high-level nuclear waste repository. Flow paths are not expected to be towards potable water supplies, rather, they are expected to be prominently downward from the repository to nonpotable deep brine aquifers. Recognizing that additional travel paths may exist, the DOE is revising the EA, as discussed in the preceding paragraph.

The DOE reviewed the contentions that flow parameters were both uncertain and nonconservative. The principal parameters controlling the ground-water travel path from the disturbed zone to the accessible environment have a degree of uncertainty. Such parameters include horizontal and vertical gradient, permeability, porosity, salinity, and the continuity and thickness of each layer. To address the uncertainty in flow parameters, a systems analysis approach is used to calculate travel paths and time for the EAs from multiple simulations based on the Latin Hypercube Sampling (LHS) method. The DOE has revised the EA in Section 6.4.2.3.5 to account for conservative and uncertain values by presenting a range of flow parameters used to calculate ground-water travel paths and times.

The DOE also reviewed the concerns over possible fracture flow and secondary porosity in the subsurface. The DOE has assessed the relative importance of, and availability of data to evaluate the fracture contribution to ground water flow at the Davis Canyon site. In response to this, the DOE assembled a peer review group of ground-water hydrologists which concluded that the Paradox Basin in the area of Davis Canyon has a similar setting to that of the Palo Duro Basin and that a similar analytical approach may be taken for travel time calculations. The most likely ground-water pathway is as porous-media flow through the permeable, nonfractured, porous matrix of the stratigraphic units downward and laterally. A range of travel times can be estimated adequately by stochastic pathway analysis using known or expected distributions of pressure, fluid density, permeability, and effective porosity. The DOE has modified the EA in Section 6.4.2.3.5 in accordance with recommendations provided by the peer review group. Travel times in the revised EA are based on stochastic pathways from Latin Hypercube Sampling as described in an above paragraph.

The DOE checked how ground-water travel distances in Table 6-34 (Comparison of Performance Assessment Results with Postclosure Regulatory Requirements) in Section 6.4.2.5 were calculated. This table indicates that the maximum 10,000-year travel distance is 50 meters (164 feet) from the disturbed zone, but the associated text in Section 6.4.2.5 does not describe how this ground-water travel distance was calculated. Specific changes in the EA have been made under Section 6.4.2.5 (Comparison with Regulatory Criteria). A statement has been added that says ground-water travel times listed in the table were calculated in the EA subsection "Possible Darcy Flow in Host Rock," under Section 6.4.2.3.5 (Geologic Subsystem Performance).

The DOE reviewed a concern about interbeds present in the salt The presence of an interbed may provide a possible conduit for ground-water and is being analyzed as an alternate travel path. The DOE has modified the EA in Section 6.4.2.3.5 to include alternate travel paths. The lateral extent of interbeds is unknown. Interbeds contain at least lithostatic pressure due to overburden; it is not known whether pore pressures in excess of lithostatic pressure are present.

The DOE considered the question of converging flow to the salt units as might be suggested from head measurements at Gibson Dome Test Well No. 1. Local heterogeneities may produce such anomalies in head measurements; however, on a regional scale, flow is predominantly downward.

Issue

Several commenters stated that the implications of Darcian flow in Chapter 6 need further clarification regarding claimed longer calculated ground-water travel times. The commenters added that the resulting calculated ground-water travel times in Chapter 6 are different from others in the draft EA and they questioned why there is a difference.

Response

The DOE examined the EA text and found that inconsistencies are present in ground-water flow travel times between Section 6.3.1.1.2 (Analysis of Favorable Condition) and subsection "Aquifer Ground-Water Flow" under Section 6.4.2.3.5 (Geologic Subsystem Performance). These inconsistencies are thought to be due to editing error.

Specific changes in the EAs have been made within Sections 6.3.1.1.1, 6.4.2.3.5, and 3.3.2.1 to reconcile the presentation of ground-water travel times throughout the EA.

Issue

A few commenters stated that the effect of perturbations such as tectonics, and climatic and geomorphic changes on hydraulic properties needs to be addressed.

Response

The DOE has reviewed the pertinent data and believes no modification of the EA is required. This review is described in the following paragraph.

The probability of severe tectonic or geomorphic disturbances in this site area is relatively low. Consequently, such disturbances are not included in expected behavior and were not analyzed for the EA. The DOE chose to use an "expected conditions" analysis for this with the assumption (to be confirmed during site characterization) that severe disturbances would be of such probability (i.e., less than 1 chance in 10,000 of occurring in 10,000 years [40 CFR Part 191]) that they could be ignored. Regardless, the impact of several hypothesized perturbations, including tectonic, climatic, geomorphic, and combinations of these processes, have been examined (INTERA, 1984, ONWI-503) and results show little effect on the ground-water flow system.

Issue

A commenter stated that inconsistencies in the discussions of salt permeabilities in Chapters 3 and 6 need resolution and that the range of permeabilities used was not conservative.

Response

The DOE has examined the EA text and believes there are no inconsistencies in the salt permeability data given and, consequently, no changes in the EA are required. Apparent inconsistencies resulted from giving a range of data for salt permeabilities because site-specific data are not available. Uncertainties in the range of permeabilities will be reduced during site characterization. The range of salt permeabilities is believed by the DOE to be representative rather than conservative or nonconservative. However, high values of permeability within the range are considered to be conservative and are used in Chapter 6 analyses.

Issue

Several commenters noted that more sensitivity and uncertainty analyses should be included in the EA.

Response

Without site-specific data, more sensitivity analyses or uncertainty analyses would not provide additional confidence that the postclosure technical guidelines can be met. The purpose of the EA is to decide whether a site warrants further characterization. An "expected conditions" analysis is sufficient for this. Indeed, one commenter noted the use of conservative assumptions by the DOE and stated that actual repository performance at all sites could likely prove better than predicted in the EAs.

In the EA subsection, "Summary of Performance of Engineered Barriers" under Section 6.4.2.3.4, the statement that the results are insensitive to variations in parameters was removed.

Issue

Several commenters felt that the potential disruptive effects of earthquakes on waste isolation had not been addressed sufficiently.

Response

Earthquakes would be of consequence at a repository to the extent that they might increase the permeability of surrounding nonsalt rocks and crack waterproofing liners in shafts. These additional paths for water flow could conceivably allow transport of radionuclides during the postclosure phase of the nuclear waste repository. Evidence suggests that earthquakes should not compromise the postclosure isolation of nuclear waste in the proposed salt sites. Kanai et al. (1966) and Lysmer et al. (1975) indicate that earthquake accelerations and displacements decrease with depth below the ground surface. Stevens (1977), Dowding (1977), and Dowding and Rozen (1978) indicate that natural and engineered openings generally experience either no damage or only minor rock falls during seismic events. On occasion, however, because of a combination of severe ground motion and poor rock or marginal support, Dowding (1977) and Dowding and Rozen (1978) report that severe damage to open tunnels has occurred. However, it is unlikely that this level of damage would be possible in a salt repository after backfill has been placed.

Section 6.3.3.4 has been expanded to indicate that acceleration values from earthquakes are the mean value of maximum acceleration estimates. This section also includes conservative assumptions about potential sources of earthquakes.

Issue

Several commenters expressed the concern that processes such as erosion, volcanic eruptions, and the impacts of a meteorite or nuclear weapons could bring nuclear waste to the surface.

Response

The potential for exhumation of waste from a repository by erosion is discussed in Section 6.3.1.5 and volcanic activity in Section 6.3.1.7. Neither process has been found to have a likely significant impact on repository performance.

Comprehensive lists of Burkholder (1980) and Koplik et al. (1982) have examined many different features, processes, and events that can conceivably affect the operation of a nuclear waste repository. Burkholder (1980,

Table 4-1) shows that the literature gives cumulative probabilities of 100 million to 1 at 10,000 years for meteorite impact and rejects a scenario involving nuclear warfare. The release of radionuclides from a nuclear waste repository itself would be insignificant when compared to radioactivity generated by an explosion of a nuclear device.

Issue

Several commenters asked how the DOE will keep future generations from drilling for natural resources after location of the site has been forgotten or keep someone from deliberately excavating the sealed shaft.

Response

The DOE has expanded Section 6.3.1.8 to describe the requirements of the Nuclear Regulatory Commission for marking the site and maintaining records of repository location and contents (10 CFR 60.2). Additionally, this section presents an evaluation of the likelihood of mineral resources at the site which would attract inadvertent human interference.

The DOE (1980, DOE/NE-0007, p. 11-189) believes that "although this generation bears the responsibility for protecting future societies from the waste it creates, future societies must assume the responsibility for any risks which arise from deliberate and informed acts which they choose to perform." For example, the DOE cannot assume responsibility for future generations that deliberately excavate the sealed shaft if they have encountered markers and understood that biohazardous waste is buried below. The NRC indicates (10 CFR 60.2, 1983) that such actions are not sufficiently credible to warrant consideration.

Issue

Several commenters expressed concern that a variety of human intrusion scenarios (notably borehole dissolution, solution mining, and a borehole U-tube pathway) could lead to unacceptable releases from a repository. One commenter suggested a numerical analysis of solution mining be done.

Response

The DOE has expanded Section 6.4.2.6 to evaluate these types of activities and their impacts on repository isolation. Several studies have been completed which are referenced in the EA (ONWI-320[1], 1981; 1985; DOE, 1983). These studies provide a calculational basis for demonstrating that when realistic conditions are assumed for ground-water flow and chemistry, waste solubility, and site geometry, then releases are well below EPA standards.

Further, the NRC's final rule (10 CFR 60.2) does not require the analysis of human intrusion activities at the site, e.g., solution mining, if appropriate markers are used to mark the site and future generations are made aware of the hazards that exist. The DOE plans to use such markers and therefore does not plan to model solution mining.

Issue

Several commenters stated that performance of shaft seals and liners may be inadequately discussed, and confidence in their effectiveness consequently overstated in Section 6.4.2.3.5 of the EA.

Response

The DOE has reviewed the EA and notes that site-specific performance assessments of shaft seal designs could not be presented in Section 6.4.2.3.5 because these designs will only be developed after detailed site characterization. Site-specific stratigraphy and geochemistry will significantly affect not only shaft seal designs but also the construction methods used. Consequently, no detailed assessments of shaft seal performance can be made until site-specific designs or construction techniques have been decided. While detailed site-specific shaft seal assessments will be performed when designs and construction methods become established, some generic quantitative and qualitative systems analyses can set bounds on how the shaft seal designs could affect isolation. Gureghian et al. (1983, ONWI-494) give an example of such an assessment. Detailed discussions that dealt with concerns about the disturbed zone around the shaft, dissolution or failure of bond between seal and host rock, and effects on radionuclide transport have been addressed in various DOE reports. However, these reports speculate on designs, construction methods, and site properties. Consequently, no changes are planned in the EA regarding this comment.

Issue

Commenters noted that Gureghian et al. (1983, ONWI-494), referenced in Section 6.4.2.3.5 of the EA, neglected the disturbed zone around the shaft seal system.

Response

It is true that Gureghian et al. (1983, ONWI-494) neglected the disturbed zone around the shaft seal system. However, previous schematic designs by Kelsall et al. (1982, ONWI-405; 1983) and Parsons Brinckerhoff/PB-KBB (1983, ONWI-496) have not ignored this issue. Gureghian et al. (1983, ONWI-494) chose to assume that the main flow was through the seals only because such an analysis had not previously been performed.

Even if water flow short-circuited through a disturbed zone around the shaft seals in the overlying nonsalt units, flow would likely be blocked upon contact with the repository salt unit, for three reasons. First, for example, Parsons Brinckerhoff/PB-KBB (1983, ONWI-496) provides for a salt saturated expanding cement placed at the top of the salt horizon and no gaps at the interface between the shaft and the surrounding salt. Second, any unexpected gaps at the interface between the shaft and surrounding rock will close rapidly due to the buildup of radial stresses from lithostatic stress. For example, Kelsall et al. (1982, BMI/ONWI-564, p. A-35) used generic creep data to show that radial stresses will build up to 70 percent of initial lithostatic stress within 30 years for Lower San Andres Unit 4 in the Permian Basin at the base of the shaft. These radial stresses should be more than sufficient to close any possible pathways for water. Kelsall et al. (1982, ONWI-405, p. A-30) reported similar creep rates for a shaft of a generic reference repository in bedded salt. The behavior in the Paradox Basin is expected to be similar. Third, and most importantly, any salt dissolution through any available pathway will quickly stop without a mechanism to cycle fresh water in and out of the salt unit. The sealed shafts will be located large distances from any repository rooms containing waste and, therefore, it is unlikely under expected site conditions, that the massive amounts of dissolution required to uncover any waste could occur around the shafts. For example, Stearns-Catalytic (1984) locates all the shafts more than 760 meters (2,500 feet) from the closest TRU waste, 1,220 meters (4,000 feet) from the closest CHLW waste, and 1,830 meters (6,000 feet) from the closest spent fuel waste. All tunnels between the shafts and waste areas will be backfilled with crushed salt or other suitable material and have tunnel bulkheads made of concrete and salt bricks (Kelsall et al., 1985, BMI/ONWI-564). In addition, Monti and Gupta (1984) have shown that the maximum potential dissolution under natural conditions of freshwater flow for an existing borehole at Cypress Creek could only increase the borehole diameter from 0.34 meter (13 inches) to 2 meters (6.5 feet) before creep finally closed the borehole altogether in 30 to 70 years.

Even with large flow rates, INTERA (1985, BMI/ONWI-553) has shown that for the worst case of a borehole cycling in fresh water at flows of 3,800 cubic meters (134,200 cubic feet) per day, the amount of dissolution will be small. If the sedimentation of impurities during any dissolution were considered, the base of the shaft seal system could likely plug and block a flow path that had been developed during dissolution.

In conclusion, expected flows through disturbed zones are not expected to persist. Consequently, no changes are made in the EA regarding this comment.

Issue

One commenter cited examples of failures around salt mine shafts and suggested that the environmental assessments discuss them.

Response

The examples of failures cited by the commenter do not involve stratigraphy, hydrology, seal designs, and/or construction methods similar to those intended for waste isolation in salt and described by Kelsall et al. (1983) and Parsons Brinckerhoff/PB-KBB (1983, ONWI-496). Consequently, the EA was not revised to include discussions of these cited failures.

Issue

One commenter noted that all shaft seals leak.

Response

It may possibly be true that all shaft seals leak. However, the issue is whether any radionuclide transport will occur if they do leak. The likelihood of any flow reaching the repository rooms and transporting radionuclides is small, for four reasons. First, the remoteness of the shaft seal systems with respect to the repository reduces the likelihood of flow reaching the repository. Second, expected creep closure of repository rooms (70 years as estimated by INTERA [1984, BMI/ONWI-553]) further reduces the likelihood of any flow from leaking shafts reaching the repository. Third, given the planned sequential emplacement of the waste canisters and backfilling the storage rooms with crushed salt after waste has been emplaced (SCC, 1984, pp. 4-25), creep closure of the repository rooms will have been well under way before engineered closure of the repository occurs with sealing of the shaft. Finally, the permeability of salt is effectively zero when the pressure is sufficient to deform the salt plastically and close off the passageways at crystal interfaces (Gevantman, 1981, p. 31). The in situ permeability of intact salt is very low and "probably nonexistent" according to Tien et al. (1983, NUREG/CR-3129, p. 211). The permeabilities are often below the resolution of the testing apparatus (Tien et al., 1983, NUREG/CR-3129, p. 209). Similarly, Baar (1977, p. 88) asserts that "standard permeability tests on rock salt are usually of no use, for the cores are damaged when taken out of their triaxial in situ stress field." Therefore, observed permeability in rock samples at high confining pressures may be artifacts of laboratory techniques or due to presence of impurities (Gevantman, 1981, p. 31).

In addition, given the plasticity of salt, cracks will likely not develop as connecting pathways for water flow into the repository. According to Tien et al. (1983, NUREG/CR-3129, p. 211), even transient permeability introduced into the salt around the repository should be eliminated rapidly by creep closure of the repository. Hence, given low salt permeability, sufficient flow will not occur through the intact salt to the repository before creep closes the voids in the crushed salt in about 70 years (INTERA, 1984, BMI/ONWI-553).

Since the consequences of leaking seals would be minimal, the EA was not revised to discuss this behavior.

Issue

One commenter stated that the depth cited in various sections may be inconsistent. They noted that if incorrect depth is used for performance assessment, differences in calculated temperatures, rock response, etc., will occur.

Response

The DOE has examined the EA text in Chapters 3 and 6 for inconsistent statements of the depth of the repository horizon. The 914-meter (3,000-foot) depth noted in Section 6.4.2.2 is located within the proposed repository horizon in Salt Cycle 6 and is correct; we were unable to find any reference in the EA to a repository depth of 1,066 meters (3,500 feet). The approximate repository depth of 914 meters can be confirmed by the information given in the Table 5-1 (Comparison of Alternative Repository Design Concepts, Davis Canyon) in Section 5.1.1. The correct approximate repository horizon of 914 meters (3,000 feet) was used in the performance assessment calculations in Section 6.4.2.

C.5.12 CHAPTER C.5 REFERENCES

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C.5.12.2 Federal Regulations and Statutes

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40 CFR Part 191, Environmental Radiation Protection Standards for the Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes (Draft).

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C.6 PRECLOSURE RADIOLOGICAL SAFETY

Several individuals, agencies, and organizations sought further information about a number of issues concerning the radiological safety of an operating repository. Further information was sought on topics discussed in Section 7.3.1 of the EA which provides the basis for comparing sites on radiological safety-related criteria. Information from Chapters 3, 4, 5, and 6 was utilized in responding to many of the questions.

C.6.1 POPULATION DENSITY AND DISTRIBUTION

This guideline's objective is to ensure the selection of a repository site that will minimize risk to the public and permit compliance with EPA and NRC regulations.

Issues raised by the commenters include the following:

- Balancing favorable conditions for low population density with potential for socioeconomic impacts
- Inconsistent radiological dose values
- Definition for "highly populated area."

Issue

One commenter stated that a favorable condition for low population density needs to be balanced with the increased potential for socioeconomic and environmental impacts.

Response

The DOE has reviewed the treatment of the Population Density and Distribution guideline (10 CFR 960.5-2-1) relative to related guidelines and has concluded that the siting guidelines provide a balanced evaluation of population density, socioeconomic, and environmental impacts. The DOE believes there is no need to revise this evaluation. The following guidelines address these impact areas: Population Density and Distribution (Section 6.2.1.2), Environmental Quality (Section 6.2.1.6), Socioeconomic Impacts (Section 6.2.1.7), System Guideline for Environment, Socioeconomics, and Transportation (Section 6.2.2.2).

Issue

One commenter stated that inconsistent values for radiological dose are used in Chapter 6.

Response

The DOE has reviewed the referenced tables and text and notes that the summary statement in Section 6.2.1.4.4 which places all maximum individual doses at less than 0.01 man-rem per year is correct. The maximum individual doses listed in Table 6-20 (Davis Comparison) are 0.009 man-rem per year for the construction period and 0.0056 man-rem per year for the operational period; both of which are below 0.01 man-rem per year. The statement in Table 6-2 (Preclosure and Postclosure Technical Guidelines Not Requiring Site Characterization for the Davis Canyon Site) is correct (0.0056 is less than 0.06) but the number in the table should be 0.006 man-rem per year and has been made so in the revised EA.

Issue

One commenter stated that an incorrect definition for "highly populated area" was used.

Response

"Highly populated area" is defined by the guidelines (10 CFR Part 960) as "any incorporated place of 2,500 or more persons, or any census designated places of 2,500 or more persons...." An incorporated place is recognized by the decennial reports of the Bureau of the Census. Accordingly, Monticello is not a "highly populated area," whereas Moab and Blanding do meet the criterion. This definition has been used in the analysis of the guideline for Population Density and Distribution (10 CFR 960.5-2-1). Therefore, the DOE believes no change is required in the EA analysis.

C.6.2 SITE OWNERSHIP AND CONTROL

This category responds to questions and concerns expressed about the ownership and control of the site at Davis Canyon. The category corresponds to comments received on Section 6.2.1.3 and related sections.

Issues raised by the commenters include the following:

- Information on land status and ownership
- Impact of an act of "symbolic sabotage"
- Site access routes
- Potentially adverse conditions relative to preclosure guidelines
- Displacement of people.

Issue

One commenter claimed that the DOE has not provided any detailed information or maps on land status and ownership and contends that EA Section 6.2.1.1.2 should note that extinguishment of ownership rights should include several hundred mining claims in the area, as well as mineral leases.

Response

The draft EA Figure 3-41 did generally identify ownership of specific land parcels (Federal, State, and private) required for repository development (see also EA Section 3.4.1). The DOE is fully aware that mineral leases and mining claims are present in the area. Section 3.2.8 has been expanded to give general descriptions of mineral leases and claims in the candidate area. Because of the constantly changing status of these interests, it is not necessary to verify the details of these rights at this phase of the project. The draft EA Section 4.2.1.1 did mention that existing mining and mineral rights would be extinguished. Several methods exist to remove conflicting mining claims. The owners may voluntarily relinquish these rights, the Government may purchase the rights, the claims may be challenged on the basis of validity, or mining claims can be obtained by condemnation. A discussion of procedures for dealing with existing mining claims has been added to the EA in Section 4.2.11.

Issue

One commenter, citing Section 6.2.1.3.3 of the Davis Canyon EA which states that Congressional action is required to permanently withdraw Bureau of Land Management (BLM) land for repository development, remarked that if Congress has to approve a nuclear waste site, it should not be difficult for Congress to authorize land withdrawal at the same time. The commenter also states that 2,024 hectares (5,000 acres) can be transferred by one government agency to another without Congressional action.

Response

Congressional approval is not required for repository development unless the State or Indian tribe files a notice of disapproval regarding the site recommended by the President (see Nuclear Waste Policy Act of 1982 [42 USC Sections 10101-10226], Section 115). Congressional action is required to permanently withdraw public land. Thus, it is possible that Congress might authorize the transfer of jurisdiction of Federal land at the same time it could have to consider a State or Indian tribe notice of disapproval, if such a notice is submitted.

The BLM can transfer jurisdiction over an area of Federal land (up to 2,024 hectares [5,000 acres]) to another agency by means of administrative withdrawal pursuant to the Federal Land Policy and Management Act of 1976 (43 USC Section 1714), but only for up to 20 years. The geologic repository operations area and

the controlled area must be permanently withdrawn and reserved for repository use under the applicable Nuclear Regulatory Commission (NRC) regulations (see 10 CFR 60.121). This would require Congressional action.

The DOE will seek to initiate Congressional action on land transfer after Presidential recommendation of one site for a repository.

Issue

One commenter stated that the EA did not address the impact of an act of "symbolic sabotage" that might originate from within Canyonlands National Park and would be directed at the repository or transportation corridors.

Response

The commenter does not specify the nature or perpetration means with which there is a concern. The general risk of sabotage during radioactive material transport is considered in Appendix A to the EA.

The DOE will exercise jurisdiction and control over the controlled area surrounding the repository at the repository development stage pursuant to 10 CFR 60.121. Further, as part of the general information required by 10 CFR 60.21 for inclusion in its repository construction authorization application, the DOE is obligated to certify that it will provide at the repository operations area such safeguards as it requires at comparable surface facilities to promote the common defense and security (Subpart [b][3]) and to describe the physical security plan for protection against radiological sabotage (Subpart [b][4]). In the accompanying Safety Analysis Report, the DOE is further required to detail the controls that it will apply to restrict access and to regulate land use at the site and adjacent areas (10 CFR 60.21[c][8]) and the plans for coping with radiological emergencies (10 CFR 60.21[c][9]).

The DOE intends to possess the independent security capability to address any reasonable radiological threat to the repository within the controlled area. Federal, State, and local law enforcement officials can be called upon as necessary. These same authorities are similarly available to deal with physical threats that might originate within the Park.

Issue

One commenter complained that the draft EA did not identify actual site access routes for the site characterization phase and the specific amounts and locations of State and private acreage needed for rights-of-way, attendant cost, and potential private resistance to acquisition. In a related vein, this commenter and one other questioned how the DOE proposes to acquire lands for access corridors to Davis Canyon at both the site characterization and repository development stage.

Response

With regard to the first matter, the site characterization land requirements, including access road rights-of-way, are generally described in EA Section 4.1.2.1. Also refer to the approximate access road alignment in EA Figure 4-6 (Exploratory Shaft Facility Area Plan). The DOE will obtain the needed road access by entering into a cooperative with, or obtaining a right-of-way from, the Bureau of Land Management (BLM) at the site characterization phase pursuant to Sections 307 and 507 of the Federal Land Policy and Management Act of 1976 (FLPMA), respectively (see EA Section 4.1.2.1). No appreciable non-Federally owned access corridors are currently necessary at the site characterization phase. If such corridors prove necessary, the DOE will obtain the same by right-of-way over state land or easement over private land.

At the repository development phase, road and rail access to the site will be designed and constructed to support the expected shipments of personnel, material and waste (see EA Section 5.1.1.1). The quantitative land route access requirements for this are contained in Table 5-1 (Comparison of Alternative Repository Design Concepts) (see also discussion of the representative road and rail access routes in EA Section 5.1.2.2 and their location in Figure 5-9 [Alternative Railroad and Highway Routes to Paradox Basin Repository]).

The repository controlled area must be located on land that is under DOE jurisdiction and control or lands permanently withdrawn and reserved for its use (see 10 CFR Section 60.121). The DOE will seek to acquire any transportation access beyond the controlled area by means of a right-of-way over BLM managed land (per FLPMA Section 507), or state land (per the governing Utah Board of State Lands regulations), and by means of an easement over private land (per contractual agreement).

Issue

One commenter questioned the EA finding that the potentially adverse condition relative to the preclosure guideline for Site Ownership and Control, 10 CFR 960.5-2-2 (see EA Section 6.2.1.3.3) was present since, in his estimation, there would be no problem of land acquisition and control since the proposed area is in the public domain.

Response

The DOE guideline 10 CFR 960.5-2-2 (Site Ownership and Control) contains the following potentially adverse condition: "Projected land-ownership conflicts that cannot be successfully resolved through voluntary purchase-sell agreements, nondisputed agency-to-agency transfers of title, or Federal condemnation proceedings." The commenter is correct that the Davis Canyon site is located primarily on BLM-managed public land. However, Congressional action is required to permanently withdraw the land for repository development as required by 10 CFR 60.121 (see EA Section 6.2.1.3.3). Accordingly, since the required land cannot be acquired through voluntary purchase-sell agreements, an

agency-to-agency transfer, or Federal condemnation, the potentially adverse site ownership and control condition is present.

Issue

One commenter questioned whether the displacement of people as an issue at Richton, Mississippi, and use of prime agricultural land in the Texas Panhandle (locations of other potentially acceptable salt sites) justified the selection of the Davis Canyon site.

Response

It is the DOE's intent to minimize residential displacement and to make fair and just compensation to current residents who are forced to move if they occupy land finally chosen as a repository site. The Uniform Relocation and Assistance and Real Property Acquisition Policy Act of 1970 (42 USC Section 4601 et seq.) will be followed for this purpose. In the final analysis, however, selection of a repository site will depend on the balancing of numerous safety-related and other factors, particularly those contained in the DOE siting guidelines, which include considerations of Population Density and Distribution (10 CFR 960.5-2-1) and Socioeconomic Impacts (10 CFR 960.5-2-6[4]).

Only 4 percent of the Davis Canyon site is privately owned and there are no residences within the controlled area (see EA Section 4.1.3.3). At the site characterization phase, no disturbance or relocation of residents is anticipated, nor is any displacement of economic activity expected (see EA Section 4.2.2). Similarly, no displacement of households because of land requirements for repository construction and operation, or the construction of transportation and utility corridors, is expected (see EA Section 5.4.1.4).

Issue

One commenter has suggested that the DOE's plans to allow grazing and other surface activities to continue following repository closure may conflict with 10 CFR 60.121.

Response

The DOE acknowledges that the allowance of grazing and other select surface activities within the controlled area (but beyond the restricted area) may be impermissible under 10 CFR 60.121. Section 60.121 requires that repository operations and controlled areas be located on acquired lands under the jurisdiction and control of the DOE, or lands permanently withdrawn and reserved for its use (Subpart a), to be held free and clear of "significant" encumbrances (Subpart b). It is separately provided that "incompatible activities" must be restricted within the controlled area following permanent closure (see 10 CFR 60.2 for a definition of "controlled area"). A basic purpose of the land

ownership and control requirements in 10 CFR 60.121, according to the accompanying statement of consideration, is to preclude postclosure human intrusion that could compromise waste isolation (see NRC, 1983).

Grazing or other surface activities that are not "incompatible" with permanent waste isolation or do not represent "significant" encumbrances on the land are not expressly foreclosed under 10 CFR 60.121. It is currently considered that grazing may be an acceptable activity that would not compromise safe waste isolation. The postclosure acceptability of any such activity will be determined by the DOE on a case-by-case basis in consultation with the NRC, as necessary and appropriate.

C.6.3 METEOROLOGY

This category addresses concerns about the adequacy and content of the meteorological analysis of the site at Davis Canyon. This category corresponds to comments received on Section 7.3.1.1.3 and related sections.

Issues raised by the commenters include the following:

- Inadequate meteorological analysis
- Flooding.

Issue

Approximately one-half of the commenters stated that the meteorological analysis of the site was inadequate. Specifically, the following points were noted:

1. Extrapolation from regional meteorological data for a determination of onsite characteristics was not sufficient for this area, where there can be large local variations.

2. Meteorological conditions in the areas where the waste will be transported are a major factor in determining whether the waste can be moved from the generating point to the disposal point without excessive exposure of the public to radiological hazards, particularly those that might result from an accident.

3. The fact that Moab would be located downwind of the site was sufficient reason to find a potentially adverse condition on preclosure guideline 10 CFR 960.5-2-1, Population Density and Distribution, which relates to "higher population densities than are average for the region."

Response

The DOE reexamined the dose calculations and procedures used and found that the model assumed conservative meteorological conditions for analytical purposes. Therefore, valid conclusions can be made on the basis of the derived results. The DOE believes no modification of the EA is required.

The DOE addressed transportation related issues in Section 5.3.1.2. Potential contributions of meteorology to transportation related impacts are bounded by assuming conservative meteorological conditions. Therefore, the DOE believes no modification of the EA is required.

The intent of the guideline for Population Density and Distribution (10 CFR 960.5-2-1) is to address the average population density of the region, not the highest population density which exists in any small portion of the region. Therefore, the DOE believes no modification of the EA is required.

Issue

Approximately one-half of the commenters stated that flooding was not dealt with sufficiently in the description of the site. Specifically, it was noted that there was no description of potential flooding, the measures to be used to mitigate flood damage, or the effectiveness of these mitigative measures.

Response

The DOE has reexamined flooding data, and investigation of the available data indicates that mitigation of flood damage can be achieved by laying out critical surface facilities to be above the probable maximum flood. In addition, the DOE based conclusions in the draft EA on 500-year and probable maximum floods instead of the less conservative 100-year flood predictions. Therefore, the DOE believes no modification of the EA is required.

C.6.4 OFFSITE INSTALLATIONS AND OPERATIONS

This category corresponds to questions regarding Section 7.3.1.1.4 and related sections of the Davis Canyon EA.

Issues raised by the commenters include additional information regarding offsite installations and operations.

Issue

Some commenters requested that additional information regarding offsite installations and operations be included in the EA. The EA states that radioactive release data are not available for Lisbon Mill. However, the facility is

licensed by the U.S. Nuclear Regulatory Commission and predicted release data must be available and should be included in the EA. Also, a discussion needs to be provided on the Indian Creek airstrip, which is currently ignored in the EA.

Response

The DOE has obtained and added the data regarding Lisbon Mill and two airstrips near the site to EA Sections 3.5 and 3.6 and discusses their implications in Section 6.2.1.5.

C.6.5 SYSTEM GUIDELINE - PRECLOSURE RADIOLOGICAL SAFETY

This category responds to concerns regarding overall radiological safety during repository operation at the Davis Canyon site. These concerns were expressed after review of Section 7.3.1.2 and related sections.

Issues raised by the commenters include the following:

- Advanced notification of controlled releases of radionuclides
- Attention to accidents, emergency protection plans, and follow-up studies.

Issue

Several commenters noted that repository operations place the surrounding population at risk and requested advance notification of controlled releases of radionuclides from the repository.

Response

Federal radiation safety standards (10 CFR Part 60; 40 CFR Part 191) exist to protect the health and safety of the public from undue risk. The repository will be a licensed facility subject to these standards.

The DOE has outlined the repository operations in Section 5.1 of the EA. Very small quantities of radionuclides are to be released on a continuous basis rather than at distinct time intervals. This is based on the assumption that fuel disassembly and packaging will be done at the repository. The DOE has proposed in the Final Mission Plan (DOE/RW-0005, 1985) to establish a monitored retrievable storage (MRS) facility at a site away from the repository. In this case, emissions at the repository would be limited to minute radon releases from the salt mined during construction, and from handling, since waste preparation would occur at the MRS.

Notification of unusual repository operations would be made according to an emergency response plan to be developed during the licensing phase.

Issue

Several commenters suggested that accidents, emergency protection plans, and follow-up studies should receive additional attention.

Response

Section 6.2.1.2 discusses the guideline on population density and distribution. A factor that was considered and discussed in the evaluation of this preclosure radiological safety systems guideline was the DOE's ability to prepare an emergency preparedness program. No specific requirement for an emergency preparedness plan will exist until the licensing phase of the repository. The DOE does not believe that a modification to the EA is warranted.

C.6.6 ASSESSMENT OF PRECLOSURE PERFORMANCE

This category responds to questions about preclosure radiological assessment of the Davis Canyon site. This information corresponds to Section 6.4.1 and related sections.

Issues raised by the commenters include the following:

- Handling accident scenarios and source terms
- Incomplete normal operational sources
- Accident calculations.

Issue

Several commenters stated that waste handling accident scenarios and source terms analyzed were not shown to be bounding, complete, or conservative.

Response

Previous work is summarized in the EAs to provide a more complete picture of the potential impacts of a repository. The five waste handling scenarios and their associated sourceterms described in Section 6.4.1.4 were originally chosen for analysis because of their bounding and conservative attributes as seen in the context of very early designs. Complete analyses cannot be done until site specific designs of repository facilities are available; therefore, additional analyses were not done for the final EA. However, some text modifications were

added to Section 6.4.1.4 to more clearly acknowledge the bounding, completeness, and conservatism concerns.

Issue

Several commenters stated that normal operational source terms were incomplete and not conservative.

Response

The DOE has reexamined the source terms, and the effects of suggested changes on the reported results have been discussed in Section 6.4.1 of the final EA. For routine operational analyses, changes in the radiological calculations have been made to bring Section 6.4.1 into agreement with repository operations described in Section 5.1.1.

Issue

One commenter stated that because of the use of conservative assumptions, it should be emphasized that actual repository performance would "likely prove better than predicted."

Response

The DOE has added the suggested wording to Section 6.4.1 of the revised EA.

Issue

One commenter stated that accident calculations accomplished in accordance with U.S. Nuclear Regulatory Commission (NRC) Regulatory Guide 1.4 (NRC, 1974) should be done in accordance with Regulatory Guide 1.25 (NRC, 1972).

Response

The DOE has reviewed the accident calculations, and the differences that recalculation according to Regulatory Guide 1.25 (NRC, 1972) guidance would have on reported results have been included in the discussion of Section 6.4.1.

Issue

A commenter stated that conditional statements should be replaced with estimates of the probability of occurrence or an appropriate "risk assessment."

Response

The DOE has examined the text of the EA for opportunities to substitute probabilistic analyses and finds that the probabilistic data required for such analyses are not available nor required at this stage of the program.

C.6.7 CHAPTER C.6 REFERENCES

C.6.7.1 References Listed By Author

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U.S. Nuclear Regulatory Commission, 1983. "Disposal of High-Level Radioactive Wastes in Geologic Repositories, Technical Criteria (10 CFR Part 60)," Federal Register, Vol. 48, No. 20, pp. 28194-28216, June 21.

C.6.7.2 Federal Regulations and Statutes

10 CFR Part 60, Disposal of High-Level Radioactive Wastes in Geologic Repositories; Technical Criteria.

10 CFR Part 960, Nuclear Waste Policy Act of 1982; General Guidelines for the Recommendation of Sites for the Nuclear Waste Repositories; Final Siting Guidelines.

40 CFR Part 191, Environmental Standards for the Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes; Final Rule, September 19, 1985.

Federal Land Policy and Management Act of 1976, 43 USC Secs. 1701-1782.

Nuclear Waste Policy Act of 1982, 42 USC Secs. 10101-10226.

Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, 42 USC Secs. 4601 et seq.

C.7 ENVIRONMENT, SOCIOECONOMICS, AND TRANSPORTATION

Many of those who reviewed the draft EA had questions relating to a variety of issues concerned with the environment, socioeconomics, and transportation at a repository. These preclosure issues are considered in Section 7.3.2. Many of these issues also are addressed in Section 4.2, which deals with site characterization before the decision is made to build a repository.

C.7.1 EXPECTED EFFECTS OF SITE CHARACTERIZATION

Commenters expressed concerns over a wide variety of site characterization effects. These effects include those associated with the physical environment at the site as well as effects on socioeconomic conditions. These concerns are related to individual parts of Section 4.2.

Issues raised by the commenters include the following:

- Underestimation of the impacts from site characterization
- Concerns over the fragmenting of potential impacts
- Environmental quality during site characterization
- EA adequacy
- Salt impacts
- Restoration of the site
- Current land management
- Impacts on Canyonlands National Park
- Threatened and endangered species
- Details for proposed revegetation activities
- Secondary and indirect effects of site characterization
- Basis to support impact evaluations
- Potential salt impacts to surface water
- Prevention of significant deterioration
- Air-quality-related values

- National air-quality standards
- Discussion of visibility impacts
- Quality of figures
- The noise impact analysis
- Adverse impacts on cultural resources
- Impacts from the construction and operation of transportation networks
- Information on expected project-related traffic
- Transportation issues
- Economic, social, and housing impacts
- Revenue shortfall and mitigation funding problems
- Documentation of population in-migration model
- Impacts on tourism.

Issue

Several commenters felt that the activities required during site characterization would have severe impacts on the area. They cited the use of heavy machinery, including diesel trucks, earth movers, and drilling towers. Facilities will be needed to house, feed, and transport the many workers required. Commenters felt that the impacts from characterization were underestimated and based on inappropriate analyses. Concerns were also expressed over the fragmenting of potential impacts. There was never a whole picture of the cumulative impact of repository siting.

During site characterization, it was indicated that there would need to be improvements to the access road to the site. This road would require considerable upgrading, including modification of the stream bed and installation of culverts. It was recommended that the EA determine the feasibility, extent, costs and environmental effects of such modifications.

Response

The description of activities and analysis of impacts for site characterization in the EA has been updated in Section 4.2 and Section 4.4. The analysis of impacts in the EA is based on the most current design of the facility, and the activities which will occur during site characterization.

A transportation study has been conducted by the DOE to assess the access road to the site. The feasibility, extent, costs, and environmental effects of improving this road have been addressed in Section 4.2 of the EA.

C.7.1.1 Effects on the Physical Environment

Environmental concerns related to site characterization for the Davis Canyon site were expressed on the topics of land use; ecosystems; air quality; aesthetic conditions; noise; archaelogical, cultural and historical resources; water quality; transportation; and utilities.

Issue

Comments received relating to environmental quality during site characterization include general comments about the adequacy of the EA, numerous comments about impacts to the Canyonlands area, and several specific comments on salt impacts and other concerns. These issues are summarized below and addressed in detail along with other related issues in the following sections: C.7.1.1.1, C.7.1.1.2, C.7.1.1.3, C.7.1.1.4, C.7.1.1.5, C.7.1.1.6, C.7.1.1.8, and C.7.1.1.9.

EA Adequacy: Several commenters questioned the general adequacy of the EA. It was noted that techniques used to arrive at conclusions, mitigative measures, and definitions of significance were not fully explained in the EA, nor were indirect, secondary, or cumulative impacts included. Some commenters expressed concern that measures to mitigate impacts cannot be adequately planned prior to onsite disturbances if environmental studies occur concurrently with site characterization activities.

Canyonlands: Numerous commenters were concerned about the impact of site characterization on Canyonlands National Park and the surrounding area. It was felt that project activities would be incompatible with purposes of the park, and that the pristine wilderness quality of the area would be degraded. Commenters stated that impacts of noise, visual intrusions, night lighting, increased tourism and traffic, and impacts upon air quality and archeological sites were not adequately analyzed or could not be avoided or mitigated to acceptable levels. Specific Canyonlands issues include the following:

1. Many commenters were critical of the modeling and standards used in the analysis of noise impacts. It was felt that "percent of (visitors) highly annoyed" is not an appropriate criterion for determining noise impacts in a wilderness setting.

2. Many commenters expressed concerns about the aesthetic or visual impact analyses. Issues raised included application of a visual contrast rating, impacts from night lighting, and the value of protecting the wilderness from visual intrusions of industrial activities.

3. Commenters identified the following air quality concerns: site activities would be a major and permanent source of air emissions and thus subject to PSD regulations; total suspended particulate increments would be exceeded at Canyonlands National Park, a Class I air quality area; secondary National Ambient Air Quality Standards would be exceeded; and the modeling and data used were inappropriate.

4. Commenters were concerned that archaeological resources would be damaged by site characterization activities and by increased vandalism due to an influx of people into the area. The commenters questioned the effectiveness of proposed measures to mitigate these impacts.

5. Commenters objected to the conclusion that impacts to Park visitors would be insignificant because only a small number of visitors would be affected.

6. Some commenters expressed concern that site characterization activities would have to occur within the Park itself.

Salt Impacts: Several commenters questioned the adequacy of the analysis of salt impacts. Specifically, it was stated that more detail is needed on salt transport, salt-contaminated soils, and salt dispersal rates. Concerns were also expressed about salt impacts on aquatic and terrestrial ecosystems, groundwater, and surface water, including the Colorado River.

Other Concerns: Other issues raised by commenters include the following:

1. Commenters questioned the effectiveness of measures to restore and revegetate the site.

2. Commenters stated that soils data is incomplete.

3. Commenters questioned the adequacy of the data on threatened and endangered species, and were concerned about impacts on specific species in the project area (trout, bighorn sheep, golden eagles, and other raptors).

4. Commenters believe that for adequate water quality assessments, additional information is needed on ground-water supply, location of drilling sites and wells, waste-water disposal on site, location of ESF relative to floodplains, and permit requirements.

5. Commenters stated that the EA failed to adequately assess impacts on the transportation network, including traffic volumes and capacities.

Response

Responses to the general issues raised on EA adequacy, impacts to Canyonlands area, and salt and other impacts during site characterization are provided below. Detailed responses and findings to specific environmental

issues appear in CRD subsections C.7.1.1.1, C.7.1.1.2, C.7.1.1.3, C.7.1.1.4, C.7.1.1.5, C.7.1.1.6, C.7.1.1.8, and C.7.1.1.9.

EA Adequacy: The DOE has conducted an extensive review of the EA in response to the above comments. All of the environmental sections relating to site characterization have incorporated substantive changes: new data from state and federal agencies as well as from additional studies conducted during this public comment review period have been included, methods and assumptions used to assess impacts have been reexamined, more information and rationale to support conclusions have been provided, mitigative measures have been more fully explained, and additional mitigative measures have been proposed.

The DOE acknowledges that indirect, secondary, or cumulative impacts should be addressed. EA sections have been revised to describe any such impacts that have been identified.

Canyonlands: Noise, aesthetic, and air quality analyses have been revised: new data and criterion have been used in a reanalysis of noise impacts (Section 4.2.1.6). The DOE has reevaluated visual impacts on the Park (Section 4.2.1) and reassessed night lighting requirements (Section 4.2.1.3). As a result of project design changes, revised emission rates and new meteorological data have been included in the modeling of air quality, and the original model was replaced with a more relevant one. Additional mitigative measures have also been developed (Section 4.2.1.3).

In response to concerns about impacts to cultural (archaeological) resources, the DOE acknowledges that all adverse impacts cannot be totally mitigated. However, the DOE will mitigate impacts to the maximum extent possible through identification and evaluation of resources which could be affected, coordination with state agencies, and education and resource protection programs.

Section 4.2.1 presents an expansive description of the land-use impacts of site characterization activities on the Canyonlands National Park in relation to the Park's management objectives. These land use impacts are expected to be temporary in nature and not significant. Section 4.2.1 also provides a description of the land use consequences on BLM, State, and private lands.

Salt Impacts: A new section (Section 4.4) has been added to the EA to expand the discussion of salt impacts. This section includes water quality, biota, land use, soils, and transportation issues related to salt impacts.

Other Concerns: Individual sections of the EA have been revised to address other environmental quality issues as follows:

1. The discussion on site restoration has been expanded to address effectiveness of mitigative measures (Section 4.2.1.1).

2. Additional soils data have been included in Section 4.2.1.5.

3. An evaluation of impacts and mitigation regarding stream siltation and trout populations has been added (Section 4.2.1.2).

4. Additional information concerning groundwater supply (Section 4.2.1.4.2), location of boreholes (Sections 4.2.1.4.2 and 4.1.2.2), and wastewater disposal (Section 4.2.1.4.1) has been provided to clarify and further support the conclusions on water quality. Floodplain delineations indicate that the ESF will be located above the 100-year and PMF floodplains.

5. The discussion of transportation impacts has been upgraded (Section 4.2.1.10). A new section (4.1.1.6) describes proposed new road construction.

For several issues, the DOE has reviewed the data and analyses and has determined that the EA is satisfactory:

1. The DOE believes preliminary plans for revegetation of decommissioned sites are adequate (Section 4.1.2.4).

2. The DOE believes sufficient data are provided (Section 4.1.2.4) on threatened and endangered species. The DOE reaffirms that impacts to specific species (bighorn sheep, golden eagles, and other raptors) are not expected to be significant.

C.7.1.1.1 Land Use

Issue

Many reviewers questioned the amount of land that would be required for site characterization activities and questioned the ability of the DOE to adequately restore the site, assuming it was not chosen for a repository, following site characterization.

Response

The DOE has recalculated the estimates of land required for site characterization activities; these estimates are discussed in Sections 4.1.1 and 4.1.2 of the EA. However, not all this area will be disturbed. Land that is disturbed will be restored following standard BLM procedures, as described in EA Sections 4.2.1.1, 4.1.2.4, and 4.2.1.5.

Issue

Commenters noted that the EA contains no examination of current land management practices along the Canyonlands National Park entrance corridor concerning park management objectives and how introduction of an industrial

facility in that corridor would interfere with park objectives. An important consideration is the increased use of park wilderness and recreational resources, and the accompanying damage to the environment from illegal offroad vehicle use. The EA assumed that offroad vehicle use could be mitigated by effective law enforcement. However, there was no estimate of its expected effectiveness, what agency would provide the services, or what it would cost.

Response

Transportation information has been reviewed and interpreted by the DOE to assess the land use impacts along the Canyonlands National Park entrance corridor, specifically in accordance with the park management plan. There may be temporary inconveniences to park users, but access would not be denied to the park. The potential for increases in offroad vehicle use has been addressed in Section 4.2.1.12, where secondary impacts are identified, but the increases are expected to be minimal. Additional quantification of the level of enforcement and cost is expected to be very low, given the minimal impacts. The DOE will consult with appropriate parties to mitigate any impacts.

Issue

Commenters indicated that no assessment of the transportation-related impacts of salt disposal was made. This includes rail shipment of salt during site characterization, and truck transportation to the nearest rail loading point.

Response

A new EA section (Section 4.4) has been added to expand discussion of salt impacts on the environment, including transportation-related impacts on land use. Mode of salt transportation is also discussed. The land use impacts resulting from the transportation of salt are expected to be minimal due to mitigative measures to be used during transport.

Issue

One commenter questioned the compatibility of site characterization activities with the Bureau of Land Management (BLM) Indian Creek-Dry Valley Management Framework Plan.

Response

The DOE has reexamined the BLM Indian Creek-Dry Valley Management Plan (BLM, 1977) and believes that site characterization activities are consistent with this plan due to the multiple uses allowed. If necessary, the BLM can complete a Plan amendment under the provisions of 43 CFR Part 1600.

Issue

Reviewers indicated that the EA failed to respond to concerns from the State of Utah (Neff, 1984) regarding impacts of site characterization on Canyonlands National Park and related values and resources.

Response

Issues raised by the State of Utah regarding impacts of site characterization on Canyonlands National Park and related values and resources have been reexamined, and new assessments have been included in the final EA Section 4.2.1.1 and in Section 4.4, Land Use. Impacts include a temporary lessening of ease of access to the Canyonlands National Park. An expanded discussion on the effect of site characterization activities in relation to the park management plans and BLM management plans have been included in EA Section 4.2.1.1.

C.7.1.1.2 Ecosystems

Issue

A few reviewers expressed concern for threatened and endangered (T&E) species and, specifically, that insufficient data are presented to support impact conclusions. Others were concerned that until formal consultation is initiated with the Fish and Wildlife Service, a proper evaluation of effects on T&E species cannot be made.

Response

The DOE has obtained existing T&E species data for the Davis Canyon area from local and National resource agencies, published and unpublished reports, universities, and species experts. These data were further enhanced by a series of T&E species field investigations in and around Davis Canyon. The impact evaluations presented are satisfactory for purposes of the EA. The DOE also recognizes the need for site clearance T&E surveys to be performed prior to any disturbance at all field study, exploratory shaft, and other study locations. Where required, modifications in site characterization activities will be initiated to mitigate impacts to T&E species.

The DOE has contacted, formally and informally, all cognizant wildlife agencies, including the Fish and Wildlife Service (FWS), to obtain resource data for the site. The DOE will continue consultations with the FWS and other cognizant agencies to continually update the information base on protected species.

A discussion of these species is presented in Section 3.4.2.3. The impacts to these species are evaluated in Sections 4.2.1.2 and 5.2.4.

Issue

Two reviewers wanted more detail regarding specifications for proposed revegetation activities. One questioned the accuracy of the stated revegetation time period.

Response

The DOE believes sufficient detail is provided in Section 4.1.2.5 regarding preliminary plans for revegetation of decommissioned sites. The DOE will follow Bureau of Land Management (1982) guidelines and seed specifications. Seed mixes will vary depending on site conditions (elevation, slope, aspect, soil moisture, etc.). The use of fertilizers and other soil amendments will depend on site-specific soil analyses and seeds to be planted. Site irrigation is not planned.

The emphasis in revegetation efforts will be to achieve a rapid ground cover of plants including native species, to the extent feasible, in order to minimize wind and hydraulic erosion of disturbed sites. Reinvasion of native plants from surrounding plant communities will be encouraged. The DOE believes a normally dense ground cover of grasses and shrubs can be achieved within about 4 years, depending on a number of variables, such as rainfall. The DOE believes that once this ground cover has been achieved, reclamation can be considered successful by providing food and cover for wildlife as well as the stabilization necessary to eventually reestablish the original plant community. Based on site conditions and other considerations, a complete return of the native plant community through reinvasion and natural succession can be expected to take from 20 to 100 years.

Issue

One commenter expected more discussion on secondary and indirect effects of site characterization activities on biota.

Response

A discussion of potential secondary and indirect effects is provided in Section 4.2.1.2 of the EA. The discussion on wildlife has been expanded to include possible secondary impacts from increased poaching and harassment, off-road vehicle use, and increased noise and dust associated with new road construction and use.

Issue

Several commenters had concerns about various important species occurring in the project area. A few commenters expressed concern about possible effects of increased silt and sedimentation in Indian Creek on the trout population. Another commenter asked how a nearby golden eagle nest would be affected. One

commenter questioned the evaluation of impacts on bighorn sheep. Another commenter was concerned about whether the prey food base is limiting to raptors in the Davis Canyon area, and that any reduction in the prey food base might correspondingly reduce the raptor population.

Response

The planned borehole near Kelly Ranch will be constructed to include sedimentation ponds and other measures to prevent siltation of Indian Creek. The EA has been revised to include an evaluation of potential impacts to the trout fishery in Indian Creek and an itemization of mitigation measures to be implemented to avoid siltation, sedimentation, and impacts on the trout population.

The golden eagle nest nearest the Davis Canyon site is on the Lavender Canyon side of the intervening mesa and should not be adversely affected by site characterization activities in Davis Canyon. A planned deep hydro-nest drilling operation located about 2.4 kilometers (1.5 miles) east of the nest in Lavender Canyon could adversely affect nesting success at the site. This is not likely, however, in view of the 2.4-kilometer (1.5-mile) distance, the height of the nesting cliff, and the demonstrated tolerance golden eagles have for mining and similar activities in the region. The activity of this nest will be confirmed prior to site characterization.

Impacts to the low density bighorn sheep range may occur in Lockhart Basin where two deep hydro-drill holes are now planned. But because very few animals would be affected, and drilling operations would be concluded within 12 months, impacts to the area-wide expanding sheep population are not expected to be significant. Affected animals may acclimate to human presence, or they may occupy adjoining habitat vacated by sheep transplanted by the National Park Service to other areas. Following the 12-month drilling program, the area will either be reoccupied by sheep or could be restocked.

Wintering raptors generally occupy an expanded winter range, or none at all, and move about from area to area in search of food. Removal of about 81 hectares (200 acres) of desert scrub distributed over a wide area of site characterization activity is unlikely to deplete the regional prey base sufficiently to cause adverse effects on raptors. The 81 hectares (200 acres) represents only a small fragment of a single golden eagle's total winter feeding range. The most important controlling factor, particularly for golden eagles, is the cyclic lagomorph presence and its effects on nesting. Eagles do not generally abandon their breeding territories when jackrabbit populations plummet, but will forego nesting for a year or two until prey populations reestablish themselves. Again, the removal of this acreage is unlikely to affect more than one pair of nesting raptors and then only if they select a nest location immediately adjacent to the exploratory shaft facility.

Issue

A few commenters requested a stronger basis to support impact evaluations and a greater quantification of potential impacts on various ecosystem components.

Response

Existing biological data as presented in Section 3.4 for the Davis Canyon site, as well as data collected during a number of field investigations for threatened and endangered species and important habitats, were used to support the evaluations of impacts. The projected impacts are discussed in EA Section 4.2.1.2.

Issue

A number of reviewers expressed concerns over potential salt impacts to surface water quality and fisheries. Specific concerns included effects of salt contamination on endangered fish in the Colorado River and other fisheries, effects of windblown salt and runoff in receiving streams, intensified by accumulation of windblown salts in wash bottoms, and effects of discharges from large salt or mud pits during major storm events into Indian Creek and the Colorado River.

Response

The DOE has revised Section 4.2.1.11 to discuss the potential sources and associated impacts of waste salt in the environment. Evidence that the DOE has accumulated on salt handling and disposal indicates the following:

Potential Salt Sources and Areas of Deposition of Salt: Even in arid environments natural crusting of stockpiled salt will occur within one to four hours, depending on its moisture content. It is not likely that high winds, including tornadoes, would be successful in dislodging significant amounts of crusted salt. (The probability of a tornado strike has been calculated in Section 3.4.3.4.)

Due to the use of runoff retention ponds designed for 500-year storm events, saline water will probably remain onsite.

Airborne salt will be generated only from ventilation exhaust stacks, the evaporation and recrystallization of salt contaminated runoff in the retention ponds, the working face of the salt pile, and any conveyor drops. Salt deposition modelling suggests that airborne salt attenuates (falls out) so rapidly that it cannot be accurately measured 1.6 kilometers (1 mile) from its point of discharge.

Impacts to Biota: In determining impacts to biota, the DOE has reviewed the literature on (1) the tolerance level of vegetation types in the site vicinity, (2) impacts of entrained salt in cooling tower drift, and (3) impacts of blowing salt at the Waste Isolation Pilot Plant and Gnome project sites. The DOE believes that impacts to vegetation from salt handling and storage will not be measurable in offsite areas and will be minimal onsite.

The DOE has also indicated in Section 4.2.1.11 that the evidence suggests that indigenous vegetation is relatively tolerant of long-term salt exposure. Soils in the area are already fairly saline and the dominant galleta-shadscale vegetation is known to be tolerant to elevated salt concentrations. Moreover, high salt concentrations in runoff to Indian Creek or the Colorado River are unlikely due to low salt-deposition rates off site. Therefore, there will be no impacts to aquatic biota in either stream.

C.7.1.1.3 Air Quality

Issue

The air quality impact analysis in Section 4.2.1.3 received considerable criticism concerning four main subjects: prevention of significant deterioration (PSD), air quality-related values (AQRVs), modeling, and National Ambient Air Quality Standards (NAAQS). Each of these subjects is discussed below:

1. Numerous commenters addressed PSD applicability of the exploratory shaft facility (ESF). Commenters felt that it was likely that these facilities would be considered a "major source" and thus subject to PSD regulations. Fugitive dust from construction activities would not be exempt from consideration in the determination of applicability because it would be generated over too long a time to be considered "temporary," i.e., the 227-metric-ton (250-ton)-per-year threshold emission rate would be exceeded, and PSD would thus be triggered. It was also mentioned that CO or NO_x emissions could exceed 227 metric tons (250 tons) per year, and thus trigger PSD. The emissions inventory and effectiveness of controls presented in the EA were not considered adequate to draw a firm conclusion on PSD status. Commenters recommended that a preliminary PSD status be determined through consultation with the Utah Bureau of Air Quality (UBAQ).

   Commenters noted that the Class I total suspended particulates (TSP) increments would be exceeded at Canyonlands National Park during the project, based on results presented in the EA, and that the State would almost certainly deny a PSD permit. In summary, commenters felt that the determination of PSD applicability and the ability to satisfy PSD regulations are critical in the determination of the suitability of the Paradox Basin sites for site characterization.

2. Commenters suggested that air-quality-related values (AQRVs) (those values of an area that may be affected by changes in air quality) such

as visibility, night sky vistas (skyglow), flora, fauna and archaeological resources. AQRVs are designated on a case-by-case basis by the Federal Land Manager (FLM), who has the right to recommend denial of a permit by the UBAQ if he determines AQRVs would be adversely impacted.

Commenters stated that the visibility analysis presented in the draft EA is inadequate. The supporting document (BGI, 1983, ONWI-477) indicates visibility impacts will occur. Assessment of impairment of night sky vistas is inadequate. Commenters felt the final EA must analyze the worst case and cumulative impacts on the visibility of Canyonlands National Park and assess the significance of these impacts in consultation with the FLM and the State.

3. Commenters stated that the modeling analysis is inadequate for the following reasons:

   a. It was based on non-site-specific meteorological data.

   b. A rationale or justification should be presented explaining why the meteorological scenarios used in the modeling are "worst case." Local effects such as mountain-valley winds and inversions should be discussed.

   c. The ISCST model (Bowers et al., 1979) does not adequately simulate the impacts from elevated sources, such as the concrete batch plant and turbines, in complex terrain.

   d. The Larsen Transform method is no longer approved (for regulatory purposes) by the U.S. Environmental Protection Agency (EPA).

   e. A complete emissions inventory (including the type, extent, frequency, control efficiency, and duration) of emissions from all sources at various locations during site characterization should be included in the EA, or in supporting documentation.

4. Commenters pointed out that the maximum total 24-hour TSP concentration off site is predicted to be 319 micrograms per cubic meter, well above the secondary NAAQS of 150 micrograms per cubic meter. This constitutes an unacceptable level of environmental impact and is inconsistent with the "summary of impacts" conclusion that air quality impacts would be minimal.

Response

1. PSD

New emission rates have been derived and used in modeling air quality impacts (see EA Section 4.2.1.3). Emission inventories are presented in documents referenced in EA Section 4.2.1.3. Effectiveness of controls is

discussed in EA Section 4.2.1.3.1. No criteria pollutant had an emission rate greater than 250 tons per year. All on- and offsite activities were included in the emission estimates, including borehole drilling activities. The modeling included construction-related fugitive dust emissions. The modeling resulted in an estimated 25-microgram-per-cubic-meter maximum, 24-hour TSP increase at the park boundary. The total of 46 micrograms per cubic meter (which includes background) is well under the 150-micrograms-per-cubic-meter secondary NAAQS. Two important aspects of the Utah State regulations are reviewed below to provide a proper perspective on the modeling results, namely PSD increment applicability, and construction-related fugitive emissions.

Applicability of PSD Increments: The Davis Canyon site area has been designated by the EPA as "attainment" for particulates. Consequently, all new major sources are subject to a PSD review. This review includes demonstrating that the applicable TSP and SO_2 increments are not exceeded. In the State of Utah, once the baseline for the area has been "triggered," nonmajor sources are also required to demonstrate compliance with the increments. However, the baseline in the Davis Canyon site area has not been triggered, because no approval order for a major source has been issued by the State for this area. Furthermore, the repository project itself is not a major source. In a regulatory sense, project-related particulate concentrations would add to the existing baseline rather than consume increment.

Construction-Related Fugitive Emissions: In permit review, the State of Utah does not normally require that construction-related fugitive dust be included in its computation of increment consumption. By excluding construction-related fugitives, the DOE estimates that the 24-hour maximum TSP increase at the park boundary would be much less than the 10 micrograms per cubic meter permitted at the boundary of a Class I area. Consequently, the PSD increment at the park boundary (even if applicable) would not be violated during site characterization.

2. AQRVs

The DOI defined the air quality-related values of Canyonlands National Park as visibility, odor, night sky brightness (skyglow), flora, fauna, soils, and archaeological, historical, cultural, geological, and water quality resources (NPS, 1985). Impacts on park AQRVs are discussed in Section 4.2.1.3.3 of the EA. For example, an improved visibility analysis (Level 2) has been prepared and results are presented. Night skyglow from project activities has also been assessed (details appear in Section 5.2.5.3.4). Cumulative impacts at the park are discussed in Section 4.2.1.12.

3. Modeling

A new air quality modeling analysis has been prepared by the DOE. Emission inventories, modeling methodology (including assumptions), meteorological data, background air quality, and other details are presented in Section 4.2.1.3. A more detailed presentation is given by BNI (1985). Meteorological data from Salt Wash Tower in Hanksville, Utah, located about 113 kilometers (70 miles) west of the Davis Canyon site, were used in the modeling (see CRD Section

C.4.1.3.3). No site-specific meteorological data were available; however, the Salt Wash Tower is located in similar complex terrain and is believed to represent similar meteorological conditions. It is felt that these data are adequate for the purpose of this environmental assessment. Consequently, "worst-case" meteorological scenarios and Larsen's Transform method are no longer used.

4. NAAQS

Air quality impacts in the form of estimated maximum concentrations of TSP and NO_2 from project emissions during site characterization are presented in Table 4-20 (Air Quality Impacts During Site Characterization). As shown, concentrations are expected to be less than the NAAQS.

C.7.1.1.4 Aesthetic Conditions

Issue

Many commenters expressed concern about the EA's discussion of visibility impacts, and the application of visual contrast methodology. Specifically, they noted the following:

1. The viewshed analysis should be expanded to include all structures and should be consistent with facility descriptions in the EA.

2. A definition of the different VRM classes (in terms of the amount of acceptable levels of contrast) should be included in the EA.

3. A visual contrast rating should be applied for evaluating visual impacts of the facilities, and acceptable level of contrast should be used to assess visual aesthetic impacts.

4. The EA should include an analysis of views from major points inside and outside of the Canyonlands National Park.

Response

The DOE has reevaluated the visibility or viewshed analysis of site characterization activities considering major structures, and based on more recent design concepts, and the results are presented in Section 4.2.1.7 of the EA.

The definition of the different VRM classes in terms of the amount of acceptable levels of contrast is now reported in Section 4.2.1.7 of the EA.

The U.S. Bureau of Land Management Visual Resource Management (VRM) contrast rating system, considering acceptable levels of contrast for different classes of land, has been applied to the site characterization facilities, and Section 4.2.1.7 of the EA has been modified to consider results of the contrast rating in evaluating the visual impact of the facility.

The visibility and aesthetic impacts of site characterization activities from key observation points (KOPs) inside and outside the Park has been reevaluated, and the results are presented in Section 4.2.1.7 of the EA.

Issue

Many commenters felt that Canyonlands National Park is a unique natural wonder with vast, unspoiled vistas. They noted that it is a remote, silent area of awesome pristine beauty, full of wilderness experience, dark nights and bright stars, and other intangible and spiritual values. The commenters felt that the proposed activities would destroy these attributes. Specifically, it was noted that the activities would be a "visual intrusion," and would leave "visible scars," such as access roads, on the landscape. Bright night lighting would adversely affect the "remarkable darkness" of the night sky and the visibility of stars, and the activities would destroy the sense of "silence and remoteness" and "solitary experience." It was also noted that the beauty and "pristine qualities," wilderness experience, and other intangible and spiritual values of Canyonlands National Park would be destroyed by the proposed activities.

Response

As discussed in EA Section 4.1, earth-disturbing activities will not be conducted in Canyonlands National Park. The DOE agrees that proposed activities outside the park may have aesthetic impacts on the park. Therefore, the DOE has reevaluated aesthetic impacts of the site characterization activities on the Canyonlands National Park and has reported the results in the following sections of the EA:

- Visual aesthetic impacts of the site characterization activities on important scenic overlooks in the Canyonlands National Park in Section 4.2.1.7
- Night lighting (skyglow) impacts on the Canyonlands National Park in Section 4.2.1.3
- Noise impacts on the Canyonlands National Park in Section 4.2.1.6.

The DOE acknowledges the importance of wilderness experiences, pristine environments, solitary experience, intangible values, and other perceptive values of the Canyonlands National Park. However, because perceptions of the impacts of the site characterization activities on these values vary with the individual visitor, current studies and evaluations have focused on measurable impacts and consequences. Based on the above reported noise, visual, and night lighting impacts, which occur intermittently over several years of site characterization, some disruption of the wilderness and solitary experience may be perceived by some visitors. This disruption may occur on the eastern boundary of the Needles district near to the site. Opportunities for solitude would be

uneffected in most of the park. A cumulative analysis of these impacts on visitors to Canyonlands National Park is presented in Section 4.4.1 of the EA.

Issue

One commenter criticized quality of figures (maps) used for viewshed analysis in Section 4.2.1.7.

Response

The DOE has revised the viewshed analysis and the new results of the visibility tests are displayed on maps which are of better quality.

Issue

One commenter criticized one of the references used in the draft EA entitled "Visual Aesthetics Study: Gibson Dome Area, Paradox Basin, Utah, March 1984" (BGI, 1984, ONWI-454). Discrepancies between the results of visibility analysis performed by the commenter and the one presented in the reference and in the EA were noted.

Response

It is acknowledged that the results of the viewshed analysis presented in the stated reference are out of date due to changes in design (locations and dimensions of structures). The visibility of site characterization activities has been reevaluated based on more recent design concepts, and the new results and methodology are presented in Section 4.2.1.7 of the EA.

C.7.1.1.5 Noise

Issue

The noise impact analysis in Chapter 4 received considerable criticism, primarily concerning modeling and noise criteria. One commenter suggested several mitigation measures that might be adopted by the DOE. The DOE's earlier drilling activity (GD-1, 12 miles from the park) was cited by one commenter as an example of documented park visitor response to industrial noise intrusion.

Numerous commenters felt that the noise modeling analysis is inadequate. Specifically, assumptions dealing with attenuation, absorption, natural barriers, atmospheric conditions, blasting, background noise levels, cumulative effects, etc., were questioned. In addition, comments noted that the impact of adverse wind and temperature gradients on the propagation of noise into the park

were not considered. Conclusions were questioned regarding how far the noise would travel and the percentage of tourists who would be annoyed by it.

Commenters believed that the "percent highly annoyed" criterion is not appropriate for determining environmental impacts in a back country setting. Commenters said that impacts to sensitive areas other than Canyonlands National Park should be assessed.

Response

Section 4.2.1.6 of the EA has been revised based upon the reanalysis of impacts using new source term information. The audibility criterion used by the U.S. Forest Service was incorporated into the analysis. The noise modeling involved the prediction of sound pressure levels at key receptor points leading to an estimate of individual reaction. The frequency and duration of the noise level coupled with the frequency of visitation to the areas in question led to the predictions of noise impacts. Modeling assumptions concerned with attenuation, absorption, natural barriers, atmospheric conditions (i.e., wind and temperature), background sound levels, cumulative effects, and source terms have been reviewed and modified as appropriate to be consistent with expected site activities and conditions and with accepted modeling techniques. The model and modeling assumptions are described in detail in BNI (1985), along with a discussion of the effects of wind and air temperature gradients on noise propagation into the park. The effects of blasting, including the effects of ground motion, on noise-sensitive receptors has been addressed. A new audibility isopleth shows how far noise will travel, and estimates of the percentage of tourists annoyed are presented in Section 4.4.1. Impacts to noise-sensitive areas, such as Canyonlands National Park, Newspaper Rock State Historical Monument, Dugout Range, Needles Overlook, and nearby wilderness study areas, are addressed. Mitigation measures are discussed in detail. Several methods suggested by one commenter have been adopted by the DOE, including the requirements that construction contractors meet certain equipment noise control specifications on a continuing basis, and the use of acoustic enclosures on larger stationary noise sources such as generators and drill rigs.

C.7.1.1.6 Archaeological, Cultural, and Historical Resources

Issue

Many commenters expressed concern about adverse impacts on cultural resources as a result of site characterization activities. Negative impacts mentioned included damage caused by blasting vibrations, damage to ruins, and rock art caused by diesel engine pollution, and increased vandalism and artifact collection.

Response

The DOE has evaluated both the concerns regarding adverse impacts on cultural resources during site characterization, and the results of cultural resources surveys, and has not identified direct conflicts between planned undertakings and their effects on cultural resource properties. Although the site of the proposed surface facility has not been intensively surveyed for cultural resources, the controlled area around the site has been surveyed. In addition, a limited project-sponsored cultural resource survey has been conducted in adjacent areas. This survey has identified archaeological and historical sites that could receive secondary impacts.

The DOE recognizes that some indirect and direct impacts to cultural resources will occur during the site characterization and the repository construction phases. The DOE also realizes that all of the adverse effects of site characterization cannot be totally mitigated. Intentional and unintentional human-induced impacts to archaeological sites located on public lands in southeastern Utah have occurred since the late 1800s, despite the best efforts of land-management agencies to protect and conserve these resources. Awareness of the archaeological sites in this area has already increased as a result of publicity from the repository site selection activities, and this awareness will continue to increase if one of the sites is selected for additional study.

Adverse effects on cultural resources resulting from increased public awareness and project-related activities will be mitigated to the maximum extent possible through a combination of the following approaches:

- Proper identification and evaluation of cultural resource properties within the area
- Intensive analysis during site characterization of those cultural resource sites which could potentially be affected
- Coordination with the Utah State Historic Preservation Officer (SHPO) and applicable land management agencies regarding the potential adverse effects of cultural resources and methods of mitigation
- Development of a worker educational program designed to increase awareness of the value of cultural resources and the overall need for preservation of these resources.

There are several examples of large-scale projects in the Four Corners region which have successfully dealt with this conflict, most notably the U.S. Bureau of Reclamation's Dolores Archaeological Program in nearby southwestern Colorado. This multiyear cultural resource program has mitigated potential impacts to about 1,400 prehistoric and historic sites which are similar in nature and cultural affiliation to those in the Davis Canyon area.

Issue

Several commenters take exception with EA statements that formal compliance with Section 106 of the National Historic Preservation Act of 1966 as amended (16 USC Sections 470-470w-6) (NHPA) has been initiated between the DOE and the Utah State Historic Preservation Officer (SHPO).

Response

The DOE, in its review of the EA, can understand how some confusion could arise about the status of formal coordination with the Utah SHPO. The DOE has revised the EA to more clearly explain action taken under Section 106 of the National Historic Preservation Act.

Prehistoric and historic sites recorded by the DOE subcontractors have been evaluated by the field recorders as being either ineligible or eligible for listing on the National Register. These recommendations have been forwarded to both the Bureau of Land Management (BLM) and the Utah SHPO. The BLM has reviewed these recommendations and has either concurred or not agreed with site-specific recommendations. However, a formal concurrence has not been requested from the Utah SHPO by the DOE. The DOE is negotiating a Programmatic Memorandum of Agreement (PMOA) with the SHPO and the Advisory Council on Historic Preservation.

Issue

Several commenters pointed out that adverse impacts have already occurred at two archaeological sites in the project area, one of which constituted a violation of NHPA Section 106 requirements.

Response

The DOE believes that the argument that previous cultural resource work at archaeological site 42SA11244 constituted a violation of Section 106 of NHPA is not supportable. The "site," upon discovery, consisted of the top of a single upright sandstone slab, barely exposed at the present ground surface. No cultural artifacts were observed on the surface. Since the rock was located within the area designated for the exploratory borehole in Davis Canyon, and because surface indications were not clear as to whether the feature was cultural, the BLM requested limited test excavations to ascertain the exact nature and extent of the feature. This approach was designed not only to identify the feature as a site or noncultural occurrence, but also to evaluate its potential National Register status. The State of Utah was notified of the proposed work and the testing was performed under provisions of BLM Antiquities Permit #82-UT-168. The testing revealed a single firehearth of cultural origin without associated artifacts or other cultural features; additional monitoring of the area was recommended if further construction takes place at the locale.

C.7.1.1.7 Radiological

No comments were received.

C.7.1.1.8 Water Quality

Issue

Numerous commenters concluded that the draft EA required additional information for its impact assessments, while two commenters offered their own observations relative to impact assessments.

The areas said to require additional information were grouped into seven categories: (1) salt impacts to either the Colorado River or to ground water; (2) effect on ground water due to water withdrawals and additions; (3) location of drilling sites, wells, and sources of fresh water; (4) wastewater disposal on site; (5) location of the ESF relative to the predicted 100-year and PMF floodplains; (6) necessary NPDES and UIC permits; and (7) impacts due to dust control measures.

Response

Salt impacts on the Colorado River are addressed in EA Sections 4.2.1.4 and 4.4.1. The DOE has reassessed these sections and has modified them by expanding the impact assessment. The conclusion that there would be no measurable increases in salinity of the Colorado River was reaffirmed, due to employed mitigation measures, the distances from site activities, and the existing salt load of the Colorado River. Section 4.2.1.4.2 was revised to include a more detailed assessment of ground water impacts. The new assessment reinforces DOE's conclusion that ground water would not likely be affected.

Section 4.2.1.4.2 was revised to better address the impacts to ground water due to additional water sources and due to long-term pumping during tests. Additional detail was added supporting the conclusion that the quantity of recharge would be small due to low heads, high evaporation rates, and thickness of the unsaturated zone. Similarly, detail was added noting that test pumping rates would be low. The additional information led the DOE to conclude that changes in ground-water level or quality are expected to be minor and temporary.

Additional information was added to EA Sections 4.2.1.4.2 and 4.1.1.2 to better describe the expected number of boreholes, their location relative to Canyonlands National Park, the local effect due to onsite pumping, and the source of onsite water. Specifically, the number of boreholes increased; no drilling in Canyonlands is planned; local wells will not be affected by onsite pumping; and water for use on site will be purchased and trucked to the site. The additional information did not cause an increase in anticipated ground water impacts, and reaffirmed applicable conclusions in the draft EA.

The description of the wastewater disposal system was given more detail in Section 4.2.1.4.1. Sludge from wastewater treatment would be disposed off site. Effluents would pass into a wastewater detention pond, equipped with an overflow pond sized to accommodate a storm event with a recurrence interval of 100 years. The EA concludes that due to the pond's large area and the naturally high evaporation rate of the region, the wastewater detention pond would primarily function as an evaporation pond. Consequently, no wastewater effluent is expected from the detention/evaporation pond system.

The DOE has reviewed the floodplain delineations found in Figure 3-51 (Davis Canyon Probable Maximum and 100-Year Flood Plains) and the ESF location found in Figure 4-6 (Exploratory Shaft Facility Area Plan). Based on this review, DOE has reaffirmed its conclusion in Section 4.2.1.4.1 that the ESF-related field activities would be located above the 100-year floodplain, and should also be located above the PMF floodplain.

Section 4.2.1.4.1 was expanded to include details supporting the conclusion that effluents from holding pond overflow will be contained and directed to evaporation ponds. Consequently, there should be no discharge from the site. However, if even minimal discharges are expected, the DOE plans to obtain an NPDES permit, as well as other applicable permits, as indicated in Table 6-2 (Statutory and Regulatory Authorities and Requirements, Davis Canyon) of the EA.

As discussed in Section 4.2.1.4.1, surface runoff from disturbed areas, as well as any dust suppression activities using water or chemical suppressants, will flow into sedimentation basins. These basins will mitigate any possible adverse impacts to the environment since they are designed to capture, retain, and evaporate surface runoff.

Issue

Two commenters offered observations on impact assessments: 1) site characterization and long-term ground water monitoring will require environmentally unacceptable drilling inside Canyonlands National Park; 2) many aquifers exist and will transfer leaked materials to either the Colorado or Green Rivers.

Response

Section 4.2.1.4.2 was expanded to include a statement that drilling is not planned inside Canyonlands National Park.

Added details in Section 4.2.1.4.1 address the concern that leaked materials may become transported to regional surface waters. The additional details describe the various systems which are designed to limit the escape of pollutants to the hydrosphere.

C.7.1.1.9 Transportation and Utilities

Issue

One commenter indicated that the EA fails to address impacts from the construction and operation of transportation networks.

Response

Section 4.2.1.10 has been revised to include impacts of proposed changes to the existing transportation system during characterization phase as described for the EA. This discussion includes the construction of access roads to site characterization activities. Many site characterization activities will not result in permanent road construction.

Issue

A number of commenters indicated that the information on expected project related traffic was confusing. They felt that numbers presented were inconsistent and that it was not clear whether the figures included vehicles from all activities described. A clearer discussion of projected flows relative to road capacities is needed.

Response

Section 4.2.1.10 has been updated to include additional details on expected project related traffic volumes by month for geological and exploratory shaft activities. The revised discussion eliminates confusion over projected traffic volumes.

Issue

One commenter questioned the use of national accident and fatality rates for an analysis related to Utah 211. Such an application of these rates was not considered valid.

Response

Section 4.2.1.10 has been revised to include the use of accident statistics, provided by the Utah Department of Transportation, for U.S. 191 and Utah 211 in the accident analysis. A comparison of national accident rates to local rates is also included.

Issue

One commenter noted that impacts of increased traffic were only addressed for Utah 211. The commenter maintained that impacts to U.S. 191 also needed to be addressed.

Response

Section 4.2.1.10 has been revised to include a discussion of impacts to U.S. 191 as a result of increased traffic from project related activities.

Issue

One commenter indicated that transportation issues related to the disposal of salt needed to be addressed.

Response

Section 4.2.1.10 has been revised to include discussion of the planned transportation mode and destination of salt for disposal. Salt will be transported in covered trucks and would not pose any unusual transportation hazards. Salt disposal is discussed thoroughly in Section 4.2.1.11.

Issue

One commenter noted that the EA correctly stated that road wear would occur, but disagreed with the statement that the extent and degree of road surface failure due to traffic increases could not be predicted. A commenter also indicated that mitigation measures (which would be taken in response to road wear) should be discussed.

Response

Section 4.2.1.10 discusses accelerated road surface wear as a result of project traffic. The Utah Department of Transportation did supply estimates of the remaining life of highways in the area; however, projections of the size and weight characteristics of the project trucks were not sufficient to predict the actual degree of road failure. This will be monitored as part of the studies described in Section 4.1.3.1.10. The DOE, in consultation with State and local governments, will determine what financial assistance is needed and legally allowable to construct network improvements and mitigate potential road damage.

Issue

A few commenters questioned whether Utah 211 could handle the increased traffic during site characterization and whether large equipment could negotiate the narrow and winding sections of the road. Newspaper Rock State Historical Monument was identified as a particularly sensitive area. The commenter stated that the EA failed to recognize the need for improvements to Utah 211.

Response

Section 4.2.1.10 was revised and Section 4.3.5 was added to further discuss the capacity of Utah 211 and alternative measures to improve safety.

C.7.1.2 Effects on Socioeconomic Conditions

Socioeconomic concerns for the Davis Canyon site, related to site characterization, were expressed by commenters who wished to emphasize possible impacts on site-area communities.

Issue

Some commenters felt that the EA does not adequately address the economic, social, and housing (including hotel and motel) impacts that will be present during site characterization. The suggestions were to describe economic leakage, a site characterization boom-bust, and how grazing and other surface activities would not conflict with the Disposal of High-Level Radioactive Waste in Geologic Repositories document (10 CFR Part 60).

Response

The DOE has evaluated the suggestions for improving the economic impacts section of the site characterization impacts text. The draft EA described the potential economic leakage from material purchases and wage leakage from weekly commuters in Section 4.2.2. The DOE does not believe that any modifications to this discussion are required. However, the DOE does recognize that the site characterization project would be the largest employer in the study area. Therefore, the potential for a boom and bust resulting from site characterization is discussed in Section 4.2.2.

The EA mentions the potential for social problems related to differences between in-migrating and local lifestyles in Section 4.2.2. Impacts to community cohesiveness, based on the attitudes toward project development, are now described in Section 3.6.4.

The EA does discuss the potential displacement of tourists in Section 4.4.1; however, it has been revised to include the associated economic

impacts of displacing tourists. The EA does not assume that most workers will be purchasing single family homes during site characterization. Instead, it makes a conservative assumption that each worker would need one dwelling unit. Also, the EA overstates the number of workers in-migrating with families in order to conservatively assess the impacts on local schools and other services. The DOE believes no modification is required for these housing assumptions. Section 4.2.1.1.2 discusses the impacts to land uses such as cattle grazing. It states that the DOE will review with the BLM, pursuant to the Taylor Grazing Act (43 USC Sections 315-316), any grazing plans in light of site characterization activities.

Issue

A few commenters felt that the EA fails to consider impacts to people living outside the urban portions of the study area, especially in La Sal.

Response

Disruptions to the residents living nearest the site are discussed in Section 4.2.1.1 and summarized in Section 4.2.2. The draft EA did not discuss population growth impacts to La Sal and other unincorporated settlements in the area, because the gravity model suggests that less than five percent of the work force would locate in these areas. The text has been modified to indicate why the focus of site characterization impacts is on the communities of Moab, Blanding, and Monticello.

Issue

A few commenters suggested that the EA should discuss in detail the need for additional facilities, equipment, and personnel, and the costs associated with providing them.

Response

The DOE has evaluated the need for additional jail and school facilities; their support staff and equipment needs; and the costs associated with, and the responsibility for maintaining, upgrading, and constructing, roads which are used in conjunction with site characterization activities. The EA already discusses school facility and personnel needs, and it discusses the need for law enforcement personnel beyond that associated with normal incremental growth, in Section 4.2.2. The DOE believes that no modification to this analysis is needed. The impacts to Utah 211 and area roadways are discussed in Section 4.2.1.10.

Issue

Several commenters stated that the EA should address revenue shortfall and mitigation funding problems, specifically whether Grand County, Moab, Monticello, and Blanding would be eligible to receive grants equal to taxes. These commenters also suggested that the discussions of costs of services and transient room taxes were inadequate.

Response

The draft EA stated that only San Juan County would be eligible for grants equivalent to tax payments, and it analyzed site characterization impacts to the communities, assuming no direct payments from the project for mitigation. The text has been modified to explain the mitigation funding limitations present for Grand County, Moab, Monticello, and Blanding during site characterization. The final EA has also been changed to note additional costs to local governments. The discussion of transient room taxes has been deleted. The DOE has also revised the EA discussion of site characterization mitigation measures that appear in Section 4.2.2.

Issue

A few commenters questioned the population in-migration model documentation and assumptions for site characterization, specifically treatment of weekly and daily commuters and composition of the indirect work force.

Response

The DOE has evaluated the work force and project characteristics used for site characterization which are based upon similar projects located in isolated areas of the western United States. The work force and project characteristics used to determine the conservative analysis were based upon the Intermountain Power Project (IPP) and other western projects. These were referenced in Section 4.2.2 of the EA. Additional population in-migration model documentation was added to Section 5.4. The draft EA also included a discussion of economic leakage, but made a conservative assumption that the workers are all in-migrants who need services. The DOE believes that no modification is needed to the discussion of weekly and daily commuters in Section 4.2.2. The assumption that 100 percent of the indirect work force would be local has been modified because the spouses of in-migrating workers would be available for indirect employment. Thus, the table in Section 4.2.2 has been changed.

Issue

Many commenters stated that the EA analyses of site characterization impacts on tourism are inadequate because impacts such as visitor experiences, park values, the Canyonlands' survey of visitors, regional tourism impacts, and cumulative environmental impacts are not considered.

Response

The DOE has evaluated the suggestions and has modified the EA text. The draft EA already uses a valid park visitor interview (Davidson-Peterson Associates, Inc. and PBQD, 1978). The statement in Section 5.2.11 which reads "most visitors seek social interaction with other campers, and have a preference for activities associated with urban environments and developed facilities," will be deleted, because it is inconsistent with Section 4.4.1 of the EA. This section cites the above referenced report which concluded that "getting away from people was a major in-park activity for Needles and Island in the Sky visitors." The State of Utah's survey of Canyonlands visitors (Schmitz, 1983) is be discussed in Section 3.6.2.4. The final EA also discusses the economic impact associated with potential tourist displacement from motel and hotel accommodations taken by site characterization workers. The cumulative impacts on the environment and perceptions of those impacts have been addressed in Section 4.4.1.

Issue

Several commenters felt that the EA analyses of site characterization impacts on tourism are inappropriate because the noise-impact analysis is severely flawed.

Response

The DOE has reevaluated the draft EA noise level analysis. The discussion of impacts on visitors resulting from noise levels and other environmental impacts has been modified in Section 4.4.1.

Issue

A few commenters suggested that the gravity model, used in the EA to allocate new residents, should consider factors such as housing availability and project mitigation programs, particularly, (1) distributing in-migrant workers based on community attractiveness factors, such as housing availability; (2) distributing workers to settlements other than Blanding, Monticello, and Moab; and (3) distributing more workers to Monticello because it is enroute to Blanding.

Response

The gravity model was used to allocate new residents to communities near the site area at all of the salt sites. It is one of several allocation models that can be used to distribute in-migrants to an area. The gravity model distributed new residents on the basis of community size and community distance from the site. Community size is used as a surrogate measure for other factors which can influence location decisions (see EA Section 5.4).

The gravity model was chosen because it is an established methodology and because it did not require subjective judgments in comparing attractiveness between communities. Furthermore, in a test of the gravity model using the Intermountain Power Project (IPP) site data (Paul Nelson Associates, Inc., 1982), the gravity model projections of relocatees and weekly commuters closely reflected the actual settlement patterns.

Because the gravity model suggests that less than 5 percent of the in-migrant workers would be distributed to the nonurbanized areas (excluding Spanish Valley) of Grand and San Juan Counties, the distribution would not be large enough to create a sizeable impact to the rural region. Also, the evaluation of the 1982 IPP report suggests that intervening communities had little or no effect on settlement patterns. Therefore, the straight gravity model continues to be used in the EA. However, the distributions have changed between the communities because the population estimates for the communities have changed.

C.7.2 ENVIRONMENTAL QUALITY

Preclosure repository issues relating to environmental quality, going beyond those issues considered in site characterization, are also related to the discussion of Technical Guidelines in Chapter 7, specifically to Section 7.3.2.1.1. Environmental concerns for the Davis Canyon site were expressed on issues specifically related to the proximity of the site to Canyonlands National Park. In addition, comments were classified according to a number of EA-related topics: land use; ecosystems; air quality; aesthetic conditions; noise; archaeological, cultural, and historical resources; radiological impacts; and water quality.

Issues raised by the commenters include the following:

- Impacts on Canyonlands National Park
- EA adequacy
- Salt impacts
- Guideline findings
- Acquiring of Federal, State, and private lands
- Compliance with Utah Mined Land Reclamation Act
- Impacts on grazing land
- Impacts along corridor
- Impacts on land productivity

- Revegetation and reclamation procedures
- Secondary effects of project development
- Fish and wildlife impacts
- Important species in the project area
- Threatened and endangered species
- Potential salt impacts to surface water quality and fisheries
- Air quality impact analysis
- Visibility impacts
- Noise impact analysis
- Archaeological, cultural, and historical resources
- Radiological impact
- Water quality.

Issue

Commenters raised many issues relating to the EA's discussion of environmental quality in Chapter 5. Comments include general comments about the adequacy of the EA analyses, numerous comments about impacts to Canyonlands National Park, several comments on salt impacts and other concerns, and finally, several comments on the guideline findings and compliance with environmental regulatory requirements. These issues are summarized below and addressed in detail along with related issues in CRD subsections C.7.2.1, C.7.2.2, C.7.2.3, C.7.2.4, C.7.2.5, C.7.2.6, and C.7.2.8.

EA Adequacy. Many commenters stated general dissatisfaction with the EA's analyses of impact and discussions of mitigation. It was stated that the EA failed throughout to address the cumulative, synergistic, and long-term impacts. Standards used for determining acceptable levels of impacts were not described. Mitigative measures were not fully explained, and the EA failed to present the availability, feasibility, effectiveness, or cost of mitigative measures.

Canyonlands. Numerous commenters expressed concerns about impacts on Canyonlands National Park and the surrounding area. Many believe that the presence of a repository would be incompatible with the Park and its pristine, remote wilderness character. Commenters felt that impacts on the Park were not adequately analyzed or could not be avoided or mitigated to acceptable levels. Specific concerns include the following.

1. Numerous commenters expressed concern that noise impacts will disturb the wilderness quality of the Park, and disagreed that such impacts would be insignificant. Commenters stated that the modeling was inadequate and the criterion was inappropriate for the analysis of noise impacts.

2. Numerous commenters expressed concern that viewing the repository industrial activities and facilities from the Park would be incompatible with the natural scenic beauty of the area. Many objected to the assumption that visual impacts would be insignificant and would affect only a small number of park visitors. Commenters noted that

the viewshed analysis should be expanded and should include a visual contrast rating for a more complete analysis of visual impacts.

3. Many commenters noted that lighting the repository at night would detract from nighttime sky and star viewing and from the wilderness experience of park visitors.

4. Commenters stated that the discussion of air quality impacts was inadequate and confusing. Commenters expressed concern that the repository would affect the air-quality-related values of the Park.

5. Several commenters expressed concern that repository activities would have to occur inside the Park (e.g., deep monitoring wells) or that the repository controlled area may extend over park boundaries.

6. Commenters noted that the EA failed to address impacts that would occur along the Park's entrance corridor.

7. Commenters objected to the dismissal of impacts on intangible values. The EA failed to recognize the importance of qualities such as isolation and solitude to park visitors.

8. Commenters noted that appropriate visitor surveys were not conducted, and reliable data on what visitors view as acceptable impacts were not obtained.

9. Several commenters mentioned that the influx of repository workers and increased traffic would diminish the wilderness and isolated character of the Canyonlands area.

Salt Impacts. Many commenters raised issues of impacts from salt transport, handling, storage, and disposal. Commenters questioned the adequacy of the discussion of salt impacts and felt that more detail is needed in the description of salt transport. Contamination of groundwater, the Colorado River, and other surface waters; as well as decreased land productivity; were mentioned as potential salt impacts.

Other Concerns. Other environmental issues raised by commenters include the following:

1. Commenters noted that analysis of land use impact should include more discussions of impacts on small nearby communities, grazing lands, and other Federal and State recreation lands.

2. Commenters noted that discussions of ecosystems should include analyses of secondary, or indirect, effects and more quantification of identified impacts on fish and wildlife. Some commenters were concerned about impacts on various important species (bighorn sheep, mule deer, raptors) and on threatened and endangered species.

3. Several commenters stated that more information is needed about revegetation and reclamation procedures and questioned the effectiveness of proposed procedures. In addition, several commenters mentioned that the desert ecosystem is especially fragile and susceptible to disturbances.

4. Commenters stated that the analysis of soil impacts is incomplete, and questioned the effectiveness of mitigative measures for protecting stockpiled soils.

5. Commenters noted that more details should be included on water quality, specifically on waste water disposal, as well as the availability of sufficient water.

6. Many commenters expressed concern that repository development would endanger or destroy archaeological sites in the area. Specifically it was noted that the presence of workers in the area would subject archaeological resources to greater risk of accidental damage and vandalism. Commenters questioned the effectiveness of proposed mitigative measures.

Guideline Findings: Commenters disagreed with the EA findings that no disqualifying conditions for Environmental Quality are present because they felt that impacts would occur to a site of unique cultural interest (Newspaper Rock), that impacts could not be mitigated to an acceptable level, and that the repository would conflict irreconcilably with the previously designated use of Canyonlands National Park.

Commenters also disagreed with the EA finding that no potentially adverse conditions, other than conflict with air quality values of park, are present for the same reasons.

In addition, commenters disagreed with the EA finding of no potential conflicts with Federal, State, or local environmental requirements. Commenters questioned assumptions that compliance with several of the Federal and State environmental statutory requirements can be met. Specifically, commenters noted the following:

1. The EA fails to recognize that the Colorado River is proposed for designation as a wild and scenic river, possibly making the Wild and Scenic River Act applicable.

2. Wilderness potential for land within Canyonlands National Park may make the Wilderness Act applicable.

3. Discussion of the Federal Land Policy and Management Act is not sufficient for determining whether provisions for Congressional withdrawal would be met.

4. Discussion of the Taylor Grazing Act indicates that the DOE will meet requirements for the repository site, but does not indicate whether

compliance will be met for transportation corridors and other offsite activities.

5. If the controlled or restricted area needs to be extended, portions could extend into Canyonlands National Park, requiring compliance with the Organic Act of National Park Service (NPS) and the enabling legislation for Canyonlands National Park. The EA dismissed the NPS Organic Act mandate that natural and scenic values be unimpaired.

6. Ability to comply with Floodplain and Wetlands Executive Orders is questionable because raising and relocating facilities above the 100-year floodplain would not be possible.

7. The EA did not identify facilities with sufficient capacities to accommodate repository wastes, as required by the Utah Solid Waste Management Act, in the vicinity of the site.

8. The EA did not provide information on what mitigative measures will be used to comply with the Migratory Bird Treaty Act.

9. The EA did not consider salt and sediment effects on Indian Creek in the discussion of compliance with the Fish and Wildlife Coordination Act.

10. Discussion of the Bald and Golden Eagle Protection Act did not include offsite effects and activities, or mitigative measures.

11. Discussion of the Endangered Species Act did not include offsite activities.

12. The EA states that the DOE projects an ability to meet all noise abatement requirements; however, no appropriate noise level standards have been identified for the Park.

13. Given present data uncertainties, the assertion that repository construction activities will not require PSD review cannot be made. A complete emissions inventory is not presented in the EA. The conclusion that the park can be adequately protected is not supported.

14. The EA states that no archaeological sites have been found in the restricted area. The entire area that could be affected is likely to contain a large number of archaeological sites, and avoidance is not adequate mitigation for indirect effect.

15. The finding that the DOE will be in compliance with the National Historic Preservation Act should be revised because, to date, no formal determination of eligibility has been made for possible historic sites, and Section 106 clearances have not been considered as specific requirements. In addition, the EA fails to consider possible indirect effects on sites listed or eligible for listing in the National Register.

16. The statement that all water pollution control requirements can be met is not supported by adequate data.

17. Applicability of and compliance with Section 4(f) of the Department of Transportation Act was not addressed.

Response

Responses and findings to the general issues noted above and to related issues appear in CRD Subsections C.7.2.1, C.7.2.2, C.7.2.3, C.7.2.4, C.7.2.5, C.7.2.6, and C.7.2.8. A summary of these responses follow.

EA Adequacy: The DOE has made extensive revisions to the EA in response to comments received. Revisions include incorporation of new data obtained from State and Federal agencies as well as from additional studies; reanalyses of environmental impacts; inclusion of more information and rationale to support conclusions; and more complete explanations of mitigative measures. The DOE acknowledges that cumulative and secondary impacts need to be addressed. EA sections have been revised to describe any such impacts that have been identified.

Canyonlands: Impacts on Canyonlands National Park have been reevaluated. Revisions to the EA include the following:

1. New data and criterion have been used in a reanalysis of noise impacts (Section 5.2.7).

2. Revisions in the visual impact analysis include new viewshed analyses and application of the BLM's Visual Resource Management contrast rating system (Section 5.2.6).

3. Night lighting requirements and impacts have been reassessed (Section 5.2.5).

4. New emission rates and new meteorological data have been used in the modeling of air quality impacts (Section 5.2.5).

5. The DOE's assertion that current plans require no enlargement of repository controlled area into the Park has been clarified in the EA (Section 5.2).

6. Potential conflicts with the Park's management plan and proposed wilderness areas are now addressed (Sections 5.2.3 and 5.2.11).

7. Impacts along the Park entrance corridor and surrounding areas are now addressed (Section 5.2.3).

8. The information used by the DOE was obtained from surveys conducted by the National Park Service (Davidson-Peterson Associates, Inc. et al., 1978).

9. Section 5.6.1 summarizes potential impacts to Canyonlands Park during repository development. This section indicates that the influx of repository workers and increased traffic could affect the wilderness character of the park in certain areas, although the consequences are expected to be minimal unless transportation corridors are used for park benefit or other park-related uses.

Although the DOE acknowledges the importance of the intangible values provided by the Park to its visitors, studies and evaluations will continue to focus on measureable impacts. However, the DOE will consider the intangible values in the repository decision process. Section 5.2.10 provides a discussion on visitation impacts.

Salt Impacts: A new section (Section 4.4) has been added to the EA to expand the discussion of salt impacts. This section addresses the water quality, biota, land use, and soils issues related to salt impacts. Impacts are not expected to be significant due to various mitigative and control measures that will be taken.

Other Concerns: Revisions were made to address other various environmental quality issues. For some issues, the DOE has determined that existing analyses in the EA are adequate or acknowledges that additional study is needed.

1. The land use discussion has been expanded to include analyses of impacts on nearby recreation lands (Section 5.2.3.3), on land use in nearby small communities (Sections 5.2.3.4 and 5.4), and on grazing lands (Section 5.3.3.2). The DOE will provide mitigating measures to minimize impacts.

2. Secondary impacts (noise and dust) to fish and wildlife have now been addressed (Section 5.2.4). Discussions of impacts on important species (bighorn sheep, mule deer, raptors) have been upgraded. The DOE has concluded that impact evaluations of threatened and endangered species are adequate for purposes of the EA. Greater quantification of biota impacts is not possible until additional site-specific data can be obtained.

3. The DOE will prepare a separate reclamation plan which will detail procedures for revegetation as onsite data is collected during site characterization.

4. Land and soil reclamation and mitigative measures are provided in Sections 4.4, 5.2.3, and 5.2.1.2. The DOE will preserve the land and soil as close as practicable to its original condition.

5. The DOE acknowledges that indirect effects to archaeological resources were not fully addressed in the draft EA, and that they cannot be entirely mitigated. The EA has been revised to more accurately describe anticipated indirect effects, and the DOE's plans for their mitigation, to the maximum extent possible (Section 5.2.8).

6. The DOE has concluded that the EA describes wastewater disposal in sufficient detail (Section 5.1.2.3). Floodplain illustrations have been revised to better show the relationship of surface facilities to the 100-year floodplain (Section 5.2.2.1.1). A reassessment of the availability and amount of water required is provided in Section 5.2.2.

Guideline Findings: The DOE has reexamined its findings of compliance with various environmental statutory and regulatory requirements, and the EA has been revised accordingly (Section 6.2.1.6). Specifically, effects on Newspaper Rock have been judged as significant, but are acceptable because they are short term and reversible. Some effects on Canyonlands National Park are significant, but are acceptable because they are of limited extent (visual), or short duration (blasting). EA Table 6-2 (Statutory and Regulatory Authorities and Requirements, Davis Canyon) shows that the DOE's compliance status by statute has been updated and expanded. The DOE has reexamined its disqualifying conditions of the guidelines and has reaffirmed that no disqualifying conditions have been identified.

C.7.2.1 Land Use

Issue

Several commenters questioned how the DOE would acquire Federal, State, and private lands within the proposed site and access right-of-way. They also questioned how existing mineral and grazing rights would be resolved. Other commenters indicated that there was an inadequate assessment of the requirements for use of Bureau of Land Management (BLM) land under the Federal Land Policy and Management Act of 1976 (FLPMA) (43 USC Sections 1701-1782).

Response

Section 6.2.1.6 and Table 6-2 (Statutory and Regulatory Authorities and Requirements, Davis Canyon) of the EA currently address the requirements for complying with the Federal Land Policy and Management Act. The FLPMA requirements, as discussed, would permit the DOE to conduct site characterization activities. A cooperative agreement between the BLM and the DOE would be pursued in this case. However, as also mentioned, the Act does not apply to the permanent transfer of land for repository use. If the repository land is to be located on Department of Interior or Bureau of Land Management land, the DOE would need to obtain Congressional approval for the permanent transfer of land to the DOE.

EA Section 6.2.1.3.1 acknowledges that activities may occur on privately owned land or State-owned land. If the repository site is to be located on Utah-owned land, then the DOE would work with the State on securing control of land, and surface and subsurface rights. The DOE will be developing plans to acquire lands needed for repository activities. The acquisition options

available able for State and private land include lease, purchase, and, as a last resort, condemnation. This has been added in Section 5.2.3.1 of the EA along with discussions on obtaining surface and subsurface rights.

Issue

A few commenters questioned the DOE's ability to comply with the requirements of the Utah Mined Land Reclamation Act (Utah Code Ann., Section 40-8).

Response

The DOE intends to comply with all State and local environmental requirements as listed in Table 6-4, not inconsistent with its responsibilities under the NWPA. The DOE intends to consult with State and local officials concerning sites that are recommended to determine the scope of requirements and to identify other regulations as appropriate.

Issue

Commenters stated that some small communities, such as La Sal, which are close to the repository site, may experience land-use conflicts, similar to those addressed for three more distant communities (Moab, Monticello, and Blanding). The land-use impacts to these small communities were recommended for assessment.

Response

Information on small communities, such as La Sal, has been incorporated into Sections 5.2.3.2 and 5.4 of the EA. Proximity of these areas is included in Section 5.2.3.4, and socioeconomic effects are included in Section 5.4. The overall significance of land use impacts was not found to change.

Issue

Commenters felt that the impacts from the repository on grazing land were understated. Specifically, commenters questioned the mitigation of these impacts through revegetation and the effect of changing grazing patterns by fencing the facilities and the access corridors to the facilities.

Response

The DOE has reexamined the grazing and rangeland impacts arising from repository activities. The DOE will provide crossings to mitigate the effects of any grazing areas which will be bisected. The EA has been changed to reflect this. The conclusions on grazing impacts presented in Section 5.2.3 have not been changed.

Issue

Many commenters indicated that the EA contained no examination of the impacts along the entrance corridor to the Canyonlands National Park and failed to respond to Utah State concerns of impacts of the repository on Canyonlands National Park and related values and resources. In addition, it was noted that there was insufficient examination of how the repository would interfere with the objectives and purposes contained in the Canyonlands General Management Plan (NPS, 1978) and of expected impacts to potential wilderness areas within the park.

Response

Text which addresses impacts to Canyonlands National Park has been added to EA Section 5.2.1.1. Adverse impacts along the entrance corridor will be temporary during construction of the crossing of Utah 211 with a new access road to the repository. There will be no impacts to the proposed wilderness areas in the park since no activities will occur in those areas. Noise and air impacts which may occur are of limited duration and extent as addressed in Section 5.5.1. A discussion of the Canyonlands General Management Plan has been added to this section. Revisions to Section 5.6.1 of the EA now include discussion of impacts of the repository on Canyonlands National Park and related values and resources.

Issue

Many commenters stated that the impacts on other dedicated Federal and State recreation lands should be discussed in more detail. It was also noted that there was an inadequate assessment of the compatibility of the repository with the objectives contained within the BLM Indian Creek-Dry Valley Management Plan (BLM, 1977).

Response

The DOE has reexamined the land-use impacts arising from repository activities on other dedicated lands. The land-use impact assessment of these dedicated lands remains unchanged in the EA because the DOE will not be conducting any activities within these dedicated lands and other activities will not have impacts on these lands. The DOE has reexamined the BLM Indian Creek Dry Valley Management Plan (BLM, 1977). This plan allows for multiple uses. Discussions with the BLM would take place to determine the need to amend the plan if a repository is constructed.

Issue

Some commenters felt that the discussion of salt impacts on land productivity was inadequate. The effects of salt on plant yields did not consider the long-term cumulative effects of salt deposition.

Response

The DOE has verified the information about salt effects on plant yields presented in Section 5.2.3 of the EA. Information on species within Canyonlands National Park was received. The DOE will use this information to establish the salt management field study test plots before repository decisions. Salt deposition will occur only to an extremely limited extent during salt handling, since measures will be taken to control salt drift. The discussion of salt impacts is now consolidated in Section 5.3.5 of the EA.

Issue

Commenters noted that the EA does not discuss land-use issues associated with the commingling of defense and civilian nuclear wastes. Commenters indicated that substantial changes would have to be made if the wastes were mixed. These changes include increasing the physical size of the repository and providing more security precautions.

Response

The repository design described in EA Section 5.1 was originally planned to accept defense waste. Because the design presented accommodates both defense and civilian wastes, no enlargement of the controlled area is required, and no increase in security precautions is required.

C.7.2.2 Ecosystems

Issue

A number of comments were received requesting more detail on the revegetation and reclamation procedures to be used. A few reviewers questioned the effectiveness of some of the proposed measures and the validity of conclusions drawn. Specific comments included reclamation as proposed is insufficient to mitigate probable impacts and may cause its own impacts on land use, lack of water, lack of adequate seed stock, low native soil fertility, and soil loss and contamination problems combined make it very difficult to achieve reestablishment of desert scrub in 2 to 4 years, and topsoil saved for 30-plus years will have little value.

Response

The DOE believes that sufficient detail is provided in Section 5.2.1.1 regarding preliminary plans for revegetation of decommissioned sites. The DOE will follow Bureau of Land Management (BLM) guidelines and seed specifications referenced in the EA. Seed mixes will vary depending on site conditions (elevation, slope, aspect, soil moisture, etc.) and the use of fertilizers and

other soil amendments will depend on site-specific soil analyses and seeds to be planted. Site irrigation is not planned.

The emphasis in revegetation efforts will be to achieve a rapid ground cover of plants (including native species to the extent feasible) in order to minimize wind and hydraulic erosion of disturbed sites. Reinvasion of native plants from surrounding plant communities will be encouraged. The DOE believes a ground cover of grasses and shrubs can be achieved within about four years, depending on a number of variables like rainfall. The DOE believes that once this ground cover has been achieved, a reclamation can be considered successful by providing food and cover for wildlife as well as the stabilization necessary to eventually reestablish the original plant community. Again, based on site conditions and other considerations, a return of the native plant community through reinvasion and natural succession can be expected to take from 20 to 100 years.

A detailed revegetation and reclamation plan will be prepared for each disturbed area based on observations and measurements taken during the repository construction and operation program. The plan will thoroughly detail the criteria and procedures to be followed in reclaiming each disturbed site. Seed suppliers will be located early in the program. Although topsoil fertility will diminish over the life of the project, measures can be taken to preserve its quality. The topsoil may also be used to cover or dilute salt-contaminated soils in preparation for revegetation.

Issue

Several reviewers were concerned with possible secondary effects of project development on fish and wildlife. Reviewers felt secondary effects were not addressed adequately, and in some cases raised new concerns. Specific comments related to a lack of assessment of possible secondary effects on wildlife resulting from increased human population in the area; poaching; harassment; off-road vehicle (ORV) use; displacement; limited access to important habitat attributes; the need to consider effects of increased fishing pressure on Indian Creek fishery; the effects of repository uplift on springs, an essential wildlife habitat component; and the effects on the quality of wildlife viewing and hunting opportunities on public land.

Response

Section 5.2.4 of the draft EA had addressed secondary impacts due to increased human presence, including poaching, wildlife harassment, ORV use, and increased pressures on regional hunting and fishery resources. The EA has been revised to address increased noise and dust associated with road and railroad construction. Impacts on springs due to repository uplift are expected to be nonexistent. As indicated in Appendix 6A, thermal expansion would not affect aquitard stability leading to disturbance of overlying aquifers.

Issue

A number of reviewers questioned the bases for stated conclusions regarding fish and wildlife impacts, and requested greater quantification of potential impacts, including the need to quantify the acreage and types of communities to be disturbed by access roads and railroads, the need for stronger bases for conclusions regarding water quality and noise impacts, and the need to quantify the increases in turbidity, siltation, and salt concentrations in Indian Creek.

Response

The DOE notes that the amount of land required for access roads and railroads is indicated in Section 5.2.4.1.1. The types of vegetation and communities in the vicinity of roads and railroads are described in Section 3.4.2.1. The DOE has utilized biological data for the Davis Canyon site to support the evaluation of impacts, as well as data collected during a number of field investigations for threatened and endangered species and important habitats. Quantification of impacts was done for many technical disciplines in the EA where available data allowed. The DOE believes that the current data base is sufficient for site comparison and assessment of impacts due to repository development activities.

A preliminary biological evaluation of the Davis Canyon transportation corridors has been completed and is the basis for impacts discussed in Section 5.3.2 of the EA.

The EA text has been revised to incorporate new modeling data on expected noise levels and salt deposition during repository operations. Corresponding changes in the evaluations of wildlife impacts have been made to Sections 5.2.4.1 and 5.2.10.

Issue

Several reviewers were concerned about various important species in the project area. Specific comments related to potential impacts to raptors from improper utility pole design, destruction of cliff habitat, proximity to the Lavender Mesa golden eagle nest, impacts on the Harts Point mule deer herd, bisection of bighorn sheep habitat by access roads and railroads, and other big game species.

Response

The EA text has been revised in Section 5.2.4 to reflect the following:

All utility poles and other structures can be designed and constructed to be "raptor proof."

An unknown amount of raptor cliff habitat will be destroyed during road and railroad construction. This will be determined following final route surveys and design.

The golden eagle nest on Lavender Mesa is over 1 mile from the proposed Davis Canyon surface facility and is located on the Lavender Canyon side of the mesa. This location provides an additional buffer from noise and other human activity.

Construction and operation of the proposed Davis Canyon access road is not likely to cause long-term adverse effects on the Harts Point mule deer herd. The herd currently migrates across Utah 211 each spring and fall to winter on Harts Point. The construction and operation of the repository access road should not present any more of a behavioral barrier than Utah 211 currently does.

Selection of a Kane Springs Canyon or Colorado River rail route would bisect expanding desert bighorn sheep range, and operation of such a rail route may result in a behavioral barrier to sheep movement in the area and possible abandonment. If ongoing studies demonstrate such abandonment during repository operations, following decommissioning of the repository the DOE will assist local resource agencies in reintroduction of bighorn sheep into portions of its range from where it had been extirpated.

The DOE will continue its consultation with cognizant agencies to maintain a current information base on such species.

Issue

A number of reviewers expressed concern for threatened and endangered species (T&E), and specifically on insufficient data to support impact conclusions. Concerns specifically focused on transportation and utility corridor impacts on T&E species; on water withdrawal and increased salt and siltation concentrations on endangered fish; and on the need for "Section 7" consultation with the Department of the Interior regarding the Endangered Species Act of 1973 (16 USC Sections 1531-1543).

Response

The DOE has obtained T&E species data for the Davis Canyon area from local and national resource agencies, published and unpublished reports, and from universities and species experts. These data were further enhanced by a series of DOE-sponsored T&E field investigations in and around Davis Canyon. The impact evaluations presented are satisfactory to support the conclusions in the EA.

The DOE will continue consultation with the Fish and Wildlife Service (FWS) should the Davis Canyon site be selected for repository development. During the intervening time, the DOE will remain in contact with FWS and State agencies to continually update its information base on protected species.

Additional evaluations have been added to Section 5.2.4.2 of the EA on potential effects on Colorado squawfish from water withdrawals, and on potential increases in siltation and salt concentrations.

Issue

A number of reviewers expressed concerns over potential salt impacts to surface water quality and fisheries. Specific concerns included effects of salt contamination on endangered fish in the Colorado River and other fisheries, effects of windblown salt and runoff in receiving streams, intensified by accumulation of windblown salts in wash bottoms, effects of discharges from large salt and mud pits during major storm events into Indian Creek and the Colorado River, and the long-term effects of salt on soils, vegetation, and herbivores.

Response

The DOE has revised Section 5.2.10 to show the potential source of salt due to handling and disposal. The discussion includes the following information:

Even in arid environments, natural crusting of stockpiled salt will occur within 1 to 4 hours, depending on its moisture content (as discussed in Section 5.2.10). It is not likely that high winds, including tornadoes, would be successful in dislodging significant amounts of crusted salt. (The probability of a tornado strike has been calculated in Section 3.4.3.4.)

Due to the use of runoff retention ponds designed for 100-year storm events, saline water will probably not get off site.

Airborne salt will be generated only from ventilation exhaust stacks, from the evaporation-recrystallization of salt contaminated runoff in the retention ponds, the working face of the salt pile, and any conveyor drops.

Salt deposition modeling suggests that airborne salt attenuates (falls out) so rapidly that it cannot be accurately measured 1.6 kilometers (1 mile) from its point of discharge.

Section 5.2.10 also includes a discussion of the associated impacts due to salt handling and disposal.

In determining impacts to biota, the DOE has reviewed the literature on: (1) tolerance levels of vegetation types in the site vicinity, (2) impacts of entrained salt in cooling tower drift, and (3) impacts of blowing salt at WIPP and Project Gnome sites. The DOE believes that impacts to vegetation from salt handling and storage will not be measurable in offsite areas and will only be minimal on site.

The DOE has also indicated in Section 5.2.10 that evidence suggests that indigenous vegetation is relatively tolerant of long-term salt exposure. Soils in the area are already fairly saline and the dominant galleta-shadescale

vegetation is known to be tolerant to elevated salt concentrations. Moreover, high salt concentrations in runoff to Indian Creek are unlikely since ongoing dilution associated with storm events will preclude significant deposits from accumulating.

Salt deposition will not occur along any transportation corridors since train cars will be covered. Because all runoff retention ponds will be designed to contain a 100-year storm event, discharge of saline wastewater to Indian Creek will be averted. If necessary, additional overflow reservoirs could be constructed.

Windblown salt is not expected to have any effect on water quality in Indian Creek or the Colorado River. This is based on dispersion modeling performed for all potential salt sources and described in Section 5.2.5. Results of the modeling suggest that salt concentrations that will reach beyond the repository fence will be extremely small. Thus, any amounts of salt accumulation which may occur during dry or winter months will result in unmeasurable increases in salt concentrations in Indian Creek. Because any salt-level increases to either the Colorado River or Indian Creek will be unmeasurable, no impacts to aquatic biota, including important and protected fishes, will occur. Salt is also not expected to accumulate in soils, vegetation, or herbivores outside the fence line.

C.7.2.3 Air Quality

Issue

The air-quality impact analysis in Section 5.2.5 received considerable criticism concerning four main subjects: (1) prevention of significant deterioration (PSD), (2) air quality-related values (AQRVs), (3) modeling, and (4) salt. Each of these subjects is discussed below.

1. Numerous commenters addressed PSD applicability to the repository. Commenters felt that it was likely that these facilities would be considered a "major source" and thus subject to PSD regulations. Fugitive dust from construction activities would not be exempt from consideration in the determination of applicability because it would be generated over too long a time to be considered "temporary," i.e., the 227-metric-ton (250-ton)-per-year threshold emission rate would be exceeded and PSD would thus be triggered. The emissions inventory and effectiveness of dust controls presented in the EA were not considered adequate to draw a firm conclusion on PSD status. Commenters recommended that a preliminary PSD status be determined through consultation with the Utah Bureau of Air Quality (UBAQ).

   Commenters noted that the Class I total suspended particulates (TSP) increments would be exceeded at Canyonlands National Park during the project, based on results presented in the EA, and that the State would almost certainly deny a PSD permit. In summary, commenters felt

that the determination of PSD applicability and the ability to satisfy PSD regulations are critical in the determination of the suitability of the Paradox Basin sites for repository development.

2. Commenters suggested that AQRVs are those values of an area that may be affected by changes in air quality, such as visibility, night sky vistas (skyglow), flora, fauna, and archaeological resources. AQRVs are designated on a case-by-case basis by the Federal Land Manager (FLM) who has the right to recommend denial of a permit by the UBAQ if he determines AQRVs would be adversely impacted.

   Commenters stated that the visibility analysis presented in the draft EA is inadequate. The supporting document (BGI, 1983, ONWI-477) indicates visibility impacts will occur. Assessment of impairment of night sky vistas is inadequate. Commenters felt the final EA must analyze the worst case and cumulative impacts on the visibility of Canyonlands National Park and assess the significance of these impacts in consultation with the FLM and the State.

3. Commenters stated that the modeling analysis is inadequate for the following reasons:

   a. It was based on non-site-specific meteorological data.

   b. A rationale or justification should be presented explaining why the meteorological scenarios used in the modeling are "worst case." Local effects such as mountain-valley winds and inversions should be discussed.

   c. The ISCST model (Bowers et al., 1979) does not adequately simulate the impacts from elevated sources such as the concrete batch plant and steam plant in complex terrain.

   d. The Larsen Transform method is no longer approved (for regulatory purposes) by the U.S. Environmental Protection Agency (EPA).

   e. A complete emissions inventory (including type, extent, frequency, control efficiency, and duration) of emissions from all sources at various locations during repository construction and operation should be included in the EA, or in supporting documentation.

4. The impacts of wind-blown salt from the salt pile and from other sources are addressed in a cursory fashion. More detail is necessary on mitigation methods. The analysis of salt transport from the pile is not "worst case." Impacts on soils and on Salt Creek need to be addressed.

Response

1. PSD

New emission rates have been derived and used in the modeling of air quality impacts (see EA Section 5.2.5). Emission inventories are presented in documents referenced in EA Section 5.2.5. Effectiveness of controls is discussed in EA Section 5.2.5.1.4. Emission levels of all criteria pollutants from stationary sources are below 227 metric tons (250 tons) per year. The modeling included construction-related fugitive dust emissions. The modeling resulted in an estimated 42-microgram-per-cubic-meter maximum 24-hour TSP increase at the park boundary for repository construction and 8 $\mu g/m^3$ for repository operation. The total of 64 micrograms per cubic meter, which includes background for repository construction and 29 μ/m^3 for repository operation, is well under the 150-micrograms-per-cubic-meter secondary NAAQS. Two important aspects of the State of Utah regulations are reviewed below to provide a proper perspective on the modeling results, namely PSD increment applicability and construction-related fugitive emissions.

Applicability of PSD Increments: The Davis Canyon site area has been designated by EPA as "attainment" for particulates. Consequently, all new major sources are subject to a PSD review. This review includes demonstrating that the applicable SO_2 and TSP increments are not exceeded. In the State of Utah, once the baseline for the area has been "triggered," nonmajor sources are also required to demonstrate compliance with the increments. However, the baseline in the Davis Canyon site area has not been triggered because no approval order for a major source has been issued by the State for this area. Furthermore, the repository project itself is not a major source. In a regulatory sense, project-related particulate concentrations would add to the existing baseline rather than consume increment. The above discussion applies to the evaluation of applicability of PSD increments to both the repository construction and operation phases.

Construction-Related Fugitive Emissions: In permit review, the State of Utah does not normally require that construction-related fugitive dust be included in its computation of increment consumption. By excluding construction-related fugitives, the DOE estimates that the 24-hour maximum TSP increase at the park boundary would be much less than the 10 micrograms per cubic meter permitted at the boundary of a Class I area for all phases of repository construction. Consequently, the PSD increment at the park boundary (even if applicable) would not be violated during repository construction. This discussion of the treatment of construction-related fugitives does not apply to the operation phase.

2. AQRVs

The DOI defined the air quality-related values of Canyonland National Park as visibility, odor, night sky brightness (skyglow), flora, fauna, soils, and archaeological, historical, cultural, geological, and water quality resources (NPS, 1985). Impacts on park AQRVs are discussed in Section 5.2.5.3.4 of the EA. For example, an improved visibility analysis (Level 2) has been prepared and results are presented. Night skyglow from project activities has also been assessed. Cumulative impacts at the park are discussed in Section 5.1.

3. Modeling

A new air quality modeling analysis has been prepared by the DOE. Emission inventories, modeling methodology (including assumptions), meteorological data, background, air quality, and other details are presented in Section 5.2.5. A more detailed presentation is given in BNI (1985). Meteorologic data from the Salt Wash Tower in Hanksville, Utah, located about 113 kilometers (70 miles) west of the Davis Canyon site, were used in the modeling (see CRD Section C.4.1.3.3). No site-specific meteorologic data were available; however, the Salt Wash Tower is in similar complex terrain. These data are believed adequate for the purpose of this environmental assessment based on proximity and terrain type. Consequently, "worst case" meteorological scenarios and Larsen's Transform Method are no longer used. The Valley Model was used separately to estimate impacts from elevated, buoyant sources.

4. Salt

Wind erosion of particulates from disturbed areas and from the salt pile is included in the modeling. The methodology is described in detail in Section 5.2.5.2. Mitigation measures, discussed in Section 5.2.5.1.4, include watering of the salt pile and application of chemical suppressants to disturbed areas and haul roads. An analysis of annual salt deposition, using the ISC Model, has been prepared by the DOE. One year of meteorological data from the Salt Wash Tower was used in the model predictions. Salt impacts to vegetation and soils are discussed in Section 5.2.10 of the EA.

C.7.2.4 Aesthetic Conditions

Issue

Many commenters expressed specific technical concerns on the treatment given in the EA to the subjects of visibility impacts regarding repository construction and operation, the application of visual contrast methodology, and night lighting. Specifically, it was noted that

1. The viewshed analysis should be expanded to include all structures and should be consistent with facility descriptions in the EA.

2. The definition of the different VRM classes (in terms of the amount of acceptable levels of contrast) should be included in the EA.

3. A visual contrast rating should be applied for evaluating visual impacts of the facilities and acceptable level of contrast should be used to assess visual aesthetic impacts.

4. The EA should include an analysis of views from major points inside and outside of the Canyonlands National Park.

5. A more meaningful analysis for evaluating impacts of night lighting should be performed.

Response

Visibility or viewshed analysis of the repository and its support facility (rail corridors) has been reevaluated by the DOE. Visibility of the updated design concepts from important scenic overlooks was determined. These visibility analyses and their results have been included in Section 5.2.6 of the EA.

The definition of the different VRM classes in terms of the amount of acceptable levels of contrast is compiled and is reported in Section 4.2.1.7 of the EA.

The U.S. Bureau of Land Management Visual Resource Management (VRM) contrast rating system, considering acceptable levels of contrast for different classes of land, has been applied to the repository and its support facilities. This information has also been incorporated in Section 5.2.6 of the EA.

The DOE has reevaluated the visibility and aesthetic impacts of the repository and its support facilities from major key observation points (KOPs) inside and outside of the Park, and has presented the results in Section 5.2.6 of EA.

The DOE has reassessed the lighting requirements of the facility and the night lighting impacts during repository operation. The results are presented in Section 5.2.5 of the final EA.

Issue

Many commenters felt strongly that Canyonlands National Park is a unique wonder with vast, unspoiled vistas. They noted that it is a remote, silent area of awesome pristine beauty, full of wilderness experience, dark nights and bright stars, and numerous intangible and spiritual values. These commenters felt that the proposed activities would destroy these values. Specifically it was noted that:

1. The activities would be a "visual intrusion" and would leave "visible scars," such as access roads on the landscape.

2. Bright nighttime lighting would adversely affect the "remarkable darkness" of the night sky and visibility of the stars.

3. The activities would destroy the sense of "silence and remoteness" and "solitary experience."

4. The beauty and "pristine qualities," wilderness experience, and other intangible and spiritual values of Canyonlands National Park would be destroyed.

Response

The DOE agrees that proposed activities outside the park may have aesthetic impacts on the park. Therefore, the DOE has reevaluated aesthetic impacts of the repository and its support facilities on the Canyonlands National Park and has reported the results in the following sections of the EA.

- Visual aesthetic impacts of the proposed activities, including access roads, from important scenic overlooks within Canyonlands National Park (EA Section 5.2.6)
- Night lighting (skyglow) impacts of the proposed activities on Canyonlands National Park (EA Section 5.2.5)
- Noise impacts on Canyonlands National park as a result of proposed project activities (EA Section 5.2.7).

The DOE acknowledges the importance of wilderness experiences, pristine environments, solitary experience, intangible values, and other perceptive values of the Canyonlands National Park. However, because perceptions of the impacts of the repository and its support facilities on these values vary with the individual visitor, current studies and evaluations have focused on measurable impacts and consequences. Based on the above reported visual, night lighting, and noise impacts, which occur during repository construction and operation, some disruption of the wilderness and solitary experience may be perceived by some visitors. This disruption may occur on the eastern boundary of the Needles District near to the site. Opportunities for solitude would be unaffected in most of the park. A cumulative analysis of these impacts on visitors to Canyonlands National Park is presented in Section 5.6.1 of the EA.

Issue

One commenter criticized one of the references used in the draft EA entitled "Visual Aesthetics Study: Gibson Dome Area, Paradox Basin, Utah, March 1984." Discrepancies were noted between the results of visibility analysis performed by the commenter and those of the analysis presented in the reference and in the EA.

Response

The DOE acknowledges that the results of the viewshed analysis presented in the stated reference is out of date due to changes in design (locations and dimensions of structures). Therefore, the DOE has reevaluated the visibility or viewshed analysis of the repository and its support facilities based on more recent design concepts, and the new results and methodology are presented in Section 5.2.6 of the EA.

C.7.2.5 Noise

Issue

The noise impact analysis in Chapter 5 received considerable criticism, primarily concerning modeling and noise criteria.

Numerous commenters stated that the noise modeling analysis is inadequate. Specifically, assumptions dealing with attenuation, absorption, natural barriers, atmospheric conditions, blasting, background noise levels, etc., were questioned. Conclusions were questioned regarding how far the noise will travel and the percentage of tourists that will be annoyed by it.

Commenters believed that the "percent highly annoyed" criterion is not appropriate for determining environmental impacts in a backcountry setting. Commenters said that impacts to sensitive areas other than Canyonlands National Park should be assessed.

Response

Section 5.2.7 of the EA has been revised based upon reanalysis of impacts using new source term information. An "audibility" criterion was suggested by one commenter. The audibility criterion and calculation methods used by the U.S. Forest Service were incorporated in the analysis. Modeling assumptions concerned with attenuation, absorption, natural barriers, atmospheric conditions, background sound levels, and source terms have been reviewed and modified as appropriate to be consistent with the expected site activities, site conditions, and accepted modeling techniques. The effects of blasting on noise, including the effects of ground motion, on sensitive receptors has been addressed. The new audibility isopleth figures show how far noise will travel. Estimates of the effects noise will have upon tourists are presented in Section 5.6.1. Impacts to noise-sensitive areas such as Canyonlands National Park, Newspaper Rock State Historical Monument, Dugout Ranch, Needles Overlook, and nearby wilderness study areas are addressed.

C.7.2.6 Archaeological, Cultural, and Historical Resources

Issue

Many commenters expressed concern regarding direct and indirect impacts to the region's cultural resources and that these impacts have not been completely identified or evaluated in the EA. A majority of the commenters expressed general and unspecified concerns for impacts to cultural resources from repository construction and operation activities. However, several commenters expressed the following specific concerns:

- Restricted access to archaeological sites in upper Davis Canyon

- Pollution from diesel engines which might affect prehistoric archaeological and rock art sites
- Impacts from blasting and earth vibrations
- Increased vandalism due to additional human intrusion
- Impacts to archaeological sites in Canyonlands National Park
- Impacts to sites or districts listed on the National Register of Historic Places
- Potential direct and indirect impacts have not been adequately identified.

Several of the commenters believe the EA portrays repository impacts to cultural resources as insignificant or capable of being fully mitigated. It is argued that while direct impacts may be capable of being mitigated, they cannot be avoided or totally alleviated. Similarly, many commenters stated that the DOE had not considered the significant effects of indirect impacts related to repository construction and operation to the abundant cultural resources located near the Davis Canyon site.

Response

The DOE has reevaluated the concerns expressed regarding the effects of repository construction and operation on the region's cultural resources. Additional field data will be obtained and an in-depth impact analysis performed in which the potential types and consequences of both direct and indirect impacts of the repository are evaluated. Many of these studies will be conducted if the site is nominated for characterization as a potential repository site.

It is recognized that some indirect and direct impacts to cultural resources will occur during repository construction and operation. It is also realized that the adverse effects of all the impacts cannot be totally mitigated. Intentional and unintentional human-induced impacts to archaeological sites located on public lands in southeastern Utah have occurred since the late 1800s, despite the best efforts of the land-managing agencies to protect and conserve these resources. Increased awareness of the archaeological sites in this area has already occurred, resulting from publicity of the repository site selection activities and this awareness will continue to increase if one of the sites is selected for additional study.

Adverse effects to cultural resources resulting from increased public awareness and from project-related activities will be mitigated to the maximum extent possible through a combination of the following approaches:

- Proper identification and evaluation of cultural resource properties within the project area

- Intensive analysis during site characterization of cultural resource sites which could potentially be impacted

- Coordination with the Utah SHPO and applicable land-management agencies regarding the potential adverse effects and methods to mitigate them

- Development of both a worker and general public educational program designed to increase awareness about cultural resource values and the overall need for preservation of those resources.

The EA has been revised to more accurately reflect the anticipated nature and magnitude of these impacts based on the DOE's present understanding of the site.

C.7.2.7 Radiological

Issue

Commenters expressed concern that, although normal operations would have minimal radiological impact, the potential for accidental exposures may require additional analyses before final decisions are made.

Response

Radiological accidents are addressed in Section 6.4.1.4 of the draft EA. The intent of the EA is to provide an overview statement, therefore, the DOE believes that no modification of the EA is required.

C.7.2.8 Water Quality

Issue

A number of comments were received claiming that the EA contained inadequate or erroneous water resources information. Some commenters felt that specific impacts were not addressed, while others either asked questions or made observations relative to water resources.

Water resources information that was considered inadequate by the commenters included the potential for contaminating the region's water resources from salt handling and disposal, salt impact mitigation measures, existing water quality and flooding data for use in impact prediction and permitting, details on the disposal of wastewater at the site, the use of cofferdams at stream crossings, the referencing of "ephemeral streams" in addressing impacts on Indian Creek, and water use during repository construction and operation.

Issues that commenters felt were not addressed in the EA included the disruption of aquifers due to thermal uplift, the flooding potential for repository surface facilities located within the 100-year flood plain, and compliance requirements of the Fish and Wildlife Coordination Act (16 USC Sections 661-666c) regarding salt and sediment contributions to Indian Creek.

A number of commenters offered opinions or made observations regarding water resources; these included the salt impact mitigation measures outlined in the EA would have limited effectiveness, the surface storage of salt could significantly affect water quality, the number of observation wells is inadequate to identify and characterize a contaminant plume, and increases in salinity from Indian Creek and other tributaries may jeopardize the DOE's ability to comply with applicable statutes and regulations. One commenter expressed concern about the repository's proximity to the Colorado River; another asked for consideration of National Wild and Scenic River system concerns.

A few commenters asked specific questions regarding water resources. These included the adequacy of the protection that the monitoring wells will provide, the effect of thermal uplift on water resources within Canyonlands National Park, and the necessity for drilling within Canyonlands National Park if ground water becomes contaminated.

Response

More detailed information addressing water resources impacts due to salt handling and disposal, and salt impact mitigation measures were added to EA Section 5.2.2. The additional information reaffirms the DOE's conclusion that impacts are expected to be minor.

The existing water quality and flooding data in EA Section 3.3.1 represent best available data at the time of the draft EA preparation. Additional water-quality data for the Colorado River were added to the section. The data provide a base for impact predictions and permitting; however, as noted in the EA, additional data will be collected in the future by the DOE, and these data will be added to the existing data base.

Sections 5.1.2.3 and 5.2.2.1 discuss the concept of using a holding pond for collecting treated wastewater. The EA notes (Section 5.1.2.3) that, due to a positive net evaporation rate, evaporation disposal of the wastewater is feasible. The DOE has concluded that these details are sufficient to describe how the wastewater will be disposed at the site.

Section 5.2.2.1.1 contains references to cofferdams and ephemeral streams; additional detail has been added to clarify these references. As noted in that section, cofferdams or culverts will be used along with other techniques, to minimize water quality impacts due to construction activities. Where activities abut a significant stream or wash, cofferdams will be used. However, if stream flow is minor, or activities are such that stream channels must be covered, then culverts may be more appropriate. The reference to the ephemeral streams was intended to illustrate the low, intermittent nature of the various local streams. The reference has been clarified to reduce misinterpretation.

Sections 5.2.2.1.1 and 5.2.2.1.2 were modified to include estimates of repository water use during construction and operation, and the effect on local water supplies.

Section 5.2.2.2.2 of the EA has been expanded to address the issue of thermal uplift and its effect on aquifers. The DOE has concluded that there will be no significant disruption of ground-water flow patterns as a result of this phenomenon. The DOE has also concluded that wells supplying Canyonlands National Park will similarly not be affected by thermal uplift.

As noted in Section 5.2.2.1.1 of the EA, some surface facilities of the repository may encroach the 100-year floodplain. However, final design location and rechanneling will limit such encroachment, resulting in an insignificant impact to key components of the repository.

Table 6-2 (Statutory and Regulatory Authorities and Requirements) lists the Fish and Wildlife Coordination Act and discusses its requirements. Consequently, in light of the discussion of requirements, the DOE has determined that there is adequate existing detail in the EA and that no additional information is required.

The DOE has reviewed the various opinions offered by the commenters and has added additional information regarding salt handling and disposal, salt impacts, and monitoring wells. The additional information did not alter the DOE's conclusions regarding impacts.

The EA includes the proximity of the Colorado River in the discussions contained in Sections 3.3.1, 4.4.2, and 5.6.1. The DOE thus shares the commenters' concerns about the proximity of the repository to the Colorado River and its potential addition to the NWSR system. The DOE is confident that the impact assessment made in the EA adequately reflects expected events. No significant impacts on the water quality of the Colorado River are expected.

Regarding commenters' questions, monitoring wells located near and off site are designed to provide water table surveillance, as well as to monitor long-term water quality conditions. The system is augmented by the leachate sampling network built into each retention pond liner system (see, e.g., EA Sections 5.1.2.3 and 5.2.2.2). The primary purpose of the leachate sampling network is to monitor the effectiveness of the liner. Thus, this system will give an early indication of any liner failure. Early notice helps ensure sufficient corrective action, and the monitoring well system will verify the success. The DOE concludes that the two systems - monitoring wells and leachate sampling network - should adequately protect ground-water resources.

The DOE has reviewed the question of thermal uplifting affecting Canyonlands National Park water resources, and has concluded that impacts should be insignificant. This conclusion is based on the small expected magnitude of thermal uplifting, and the great distances between the repository site and the water resources of Canyonlands National Park. Details supporting this conclusion have been added to Section 5.2.2.2.

As noted in EA Section 5.2.2, ground-water impacts are expected to be minimal. Monitoring wells located outside Canyonlands National Park will be drilled to allow water-quality monitoring. No drilling is anticipated inside park boundaries.

C.7.3 EXPECTED EFFECTS OF TRANSPORTATION

Preclosure repository issues relating to transportation for the Davis Canyon site are discussed in this section.

Issues raised by the commenters include the following:

- Inadequacy of constructibility, cost estimates, and operational safety of transportation access routes
- Lack of environmental impact analysis
- Adequacy of highways Utah 211 and U.S. 191
- Radiological impacts of nuclear waste transportation accidents
- Transportation of excess salt to offsite disposal locations
- Inadequacy of assessment of the site against the guideline.

The DOE has divided the numerous transportation comments received into two categories, general and site-specific. General comments have been judged to be applicable to all sites, and responses are presented in Section C.2.4.1 of this Appendix. Since the sorting of general versus site-specific comments is somewhat subject to individual viewpoints, the reader is encouraged to review Section C.2.4.1 before reviewing site-specific responses. The DOE believes that, collectively, the general and site-specific response sections adequately respond to the several hundred transportation-related comments received.

Discussion of site-specific comments dealing with transportation appear in several sections of this Appendix. Comments relating to baseline conditions (the characteristics of the existing transportation network) are discussed in Section C.4.1.4. Comments relating to the transportation impacts of site characterization and the plans for studies during site characterization are discussed in Section C.7.1.1.9. Comments relating to repository transportation such as repository access route construction, the transportation impacts of repository operation on the local transportation environment, and assessment of the site against the transportation guideline are discussed below.

In addition to the sorting described above, the numerous site-specific comments on repository-related transportation have been categorized under the nine issues listed below for response. Again, the reader will find frequent reference to the general response in Section C.2.4.1 because of the similarity of the issue topics in the general and site-specific response sections.

Issue

Many commenters cited the lack or inadequacy of the description, constructibility, cost estimates and operational safety evaluation of transportation access routes to the site.

Response

The DOE has reviewed results of previous work on highway and railroad access routes to the Davis Canyon site and conducted additional engineering and environmental analysis of highway and railroad access route alternatives. The results of this work are summarized in Sections 5.1.2.2 and 5.3.2 of the final EA. These recent analyses have identified four railroad and two highway access routes that are viable and constructible. Cost estimates have been updated and improved. Operational safety has also been considered and general procedures and precautions proposed to assure safe operations.

Issue

Numerous commenters cited the lack of environmental impact analysis of alternative access route construction and operations over those routes. Commenters indicated that the environmental assessment should include visual, visibility, noise, air quality, archaeological, cultural, wildlife, aquatic life and land-use impacts. A few commenters noted that separate EA and EIS proceedings should be required for the access route construction project.

Response

As noted above, the DOE has conducted additional environmental analysis of alternative highway and railroad access routes. In addition, verification field surveys of the alternatives, directed toward eliminating or mitigating environmental impacts on Canyonlands National Park, have been completed and reflected in the alignment and profile of other access route alternatives not included in the draft EA. Results of this analysis are summarized in Sections 5.1.2.2 and 5.3.2 of the final EA. Selection of the preferred routes remains to be done during site characterization to allow for further environmental impact-versus-cost tradeoff studies and participation of the State, the National Park Service, the Bureau of Land Management, and local residents in the selection process.

Issue

Several commenters rejected the DOE concept that designation of a "representative route" is adequate for the EA, and that selection of the preferred route will be deferred until the site characterization phase of the siting process. A few commenters maintained that transportation access issues are vital to the siting process and must be resolved before recommendation of the site for characterization.

Response

The concept of one "representative route" for environmental assessment has been dropped in favor of evaluation and comparison of environmental impact factors for several alternative routes. This comparison is now included in Sections 5.1.2.2 and 5.3.2 of the final EA. Route selection will be done during the site characterization phase. This does not compromise the siting process because the availability of viable, constructible access routes which satisfy the qualifying condition in the siting guidelines has now been established.

Issue

A number of commenters raised questions concerning adequacy of highways Utah 211 and U.S. 191 and the existing DRG&W railroad to connect with new access routes to be constructed to support repository construction and operation. A few commenters also cited the existing airport facilities in the area as inadequate for the project. Several commenters suggested consideration of routes from I-40 on the south as well as from I-70 on the north. It was also noted that routes from I-40 on the south pass through Indian Reservations which may pose additional restrictions or controls on nuclear waste traffic. Questions were also raised regarding upgrading plans for local highways and the DRG&W Branch Line, estimated costs for improvements required, and source of funding. Concerns were also expressed about road maintenance costs and source of funding to keep local highways and bridges (U.S. 191 and Utah 211) in good condition considering accelerated wear and tear by repository-related traffic.

Response

The DOE recognizes that repository development will require a new access road or improvements in Utah 211. Significant upgrading of U.S. 191 at certain points may be required. Connection with and improvements needed in the existing DRG&W railroad will be a matter of negotiation between the DOE and the railroad. Section 5.1.2.2 has been revised to provide more information on these improvements. A landing facility in the vicinity of the repository for light planes and helicopters may also be desirable. Minor improvements may also be desirable at airports in Moab, Blanding, and Monticello as discussed in Sections 5.3.2 and 5.3.3 of the final EA.

The DOE has obtained additional information from the Utah Department of Transportation on Utah 211 and U.S. 191 conditions, maintenance costs, and improvements needed. This information has been included in revisions to Sections 3.5, 4.2.1.10, 5.3.2, and 5.3.3 of the final EA. It is expected that the cost, and source of funds, for local network improvement and maintenance to support repository operations will be subjects of negotiation with state and local officials within the consultation and cooperation process.

Consideration of routes from I-40 on the south has been made and Sections 3.5, 5.1.2.2, and 5.3 have been revised to include this alternative as well as U.S. 191 South from I-70. Use of U.S. 666 from I-40 at Gallup, New

Mexico to U.S. 191 at Monticello, Utah, appears to be the desirable routing from I-40 based on recent route surveys. Use of I-15 to the west for shipments from the west and northwest is also discussed. Concerns related to transport through Indian territory are addressed in Section C.2.4.1 of this Appendix.

Issue

A number of commenters cited the use of national transportation statistics in the local and regional analyses as unacceptable. They stated that route-specific data should be used including traffic volumes, congestion points, road conditions, population density, accident rates, seasonal traffic variations, weather effects, terrain and other route-specific hazardous conditions. In particular, hazardous wintertime conditions on I-70 in the Denver area and Eisenhower Tunnel bypass were cited as important considerations in regional analyses. The focus of the comments was that analysis of local transportation impact using national statistics yields invalid results and conclusions.

Response

The draft EA specified local routes contemplated for use in repository operations and used local population density on a county basis. However, national and, in some cases, State accident statistics were used because route-specific data were not available. The DOE has contacted State agencies and some additional route-specific data have been obtained and used in revising EA Sections 3.5, 4.2.1.10, and 5.3.3. With respect to unique conditions on I-70, the DOE believes that sufficient knowledge of actual and forecasted weather conditions is available to traffic management personnel before and during transport of shipments to avoid repository-destined shipments from being stranded on I-70 in bad weather. Shipments would either be rerouted to I-40, if in transit, or held at the origin if necessary to avoid weather delays. Consideration may also being given to "safe havens" along major routes to accommodate weather and other types of enroute delays which may be encountered. Additional discussion of plans for route-specific analyses is given in Section C.2.4.1.

Issue

Many commenters indicated direct or indirect concern over the radiological consequences of various types of nuclear waste transportation accidents. The EA was cited as being deficient in that possible radiation exposure of people and contamination of land and water resources were not addressed, nor was exposure through food chain ingestion pathways. A few commenters noted that maximum individual exposure of both workers and members of the public under various normal and accident conditions should be analyzed and included in the EA. Deficiencies in existing U.S. Nuclear Regulatory Commission (NRC)-approved casks were also cited as safety concerns that should be addressed in the EA. Numerous commenters expressed deep concern over the consequences to the southwestern United States of an accident involving a nuclear waste cask falling into the Colorado River and releasing radioactive material. Others were concerned about

accidents involving landslides or rockslides onto a cask traveling along the access routes. Finally, a number of commenters expressed disbelief in the adequacy of emergency response plans and capabilities in Utah.

Response

The DOE recognizes that many of the concerns related to the amount of aggregation that results when the effects of all accidents are expressed by a single risk number, as is done in the draft EA. Accordingly, the DOE has modified Appendix A to provide additional details on various types of accidents and the consequences of such accidents. Site-specific accidents, such as a cask drop into the Colorado River and a landslide or rockslide along the access routes, have not been specifically addressed. Such route-specific accidents will be analyzed in connection with preferred access route selection, and appropriate measures will be developed to limit both the probability and consequences of such accidents. Also, these additional analyses may incorporate the results of the NRC studies now under way on various types of credible accidents. As such information becomes available, it will be incorporated in the transportation assessments to be performed during detailed site characterization. If, as a result of NRC studies, the NRC promulgates new cask safety standards, such cask standards will be used by the DOE. However, until the results of such studies are available, the DOE has no evidence to indicate that cask-safety standards are inadequate or that the consequences of accidents in Utah will be unacceptable. Thus, no changes were made to the EA in response to the concern over the adequacy of transport safety.

Emergency response plans are the responsibility of State and local officials. The DOE will work with responsible Federal agencies and local officials to insure that adequate response capability will be in place and be maintained during the period of waste receipt.

Issue

Numerous comments were received indicating deficiencies in the DOE's transportation risk assessment using RADTRAN-II. Commenters cited invalid modeling, questionable input data, unfounded assumptions, flawed methodology, incorrect cask-contents assumptions and unfounded isotopic-release-versus-accident-severity data, inconsistent modal split assumptions, etc.

Response

The DOE has made special efforts through public workshops and distribution of reports to present extensive detail on RADTRAN-II to interested persons. In addition, the DOE continues to make improvements in RADTRAN-II. The status of RADTRAN-II and improvements, both made and planned, are discussed in Section C.2.4.1 and Appendix A. Also, previous risk analyses have been updated, additional scenarios have been analyzed using more recent data, and results are summarized in Appendix A of the final EA.

Issue

A number of commenters indicated that the DOE's evaluation of the site against the siting guidelines and related findings lack in-depth analysis and supporting data and information. In particular, commenters stated that their evaluation of the qualifying condition resulted in a finding that "the site is not likely to meet the qualifying condition and is therefore disqualified."

Response

The DOE has recently completed additional studies (see the first three issues above) of transportation access routes and the local network to the site which support its finding that the qualifying condition is likely to be met and, therefore, the site is not disqualified at this point in the siting process. In addition, the discussion in Section 6.2.1.8 of the final EA, following each favorable and potentially adverse guideline condition, has been revised to include the intent and application of the condition, as well as supporting information for the finding given. Where the guideline requires comparison with other sites, reference to Chapter 7 is made.

Issue

A number of commenters cited the absence of analysis of the transportation of excess salt to offsite disposal locations. In particular, concern was expressed that an accident would involve spillage of truck or rail car loads of salt in a lake, reservoir, or river.

Response

The consideration of all aspects of excess salt management and disposal, including transportation, has now been included in Sections 5.2.10 and 5.3.3 of the final EA.

C.7.4 EXPECTED EFFECTS ON SOCIOECONOMIC CONDITIONS

Preclosure repository issues related to socioeconomic conditions, going beyond those issues considered in site characterization, are also related to the discussion of Technical Guidelines in Chapter 7, specifically to Section 7.3.2.1.2. Socioeconomic concerns for the Davis Canyon site were expressed on the topics of population density and distribution, economic conditions, community services, social conditions, and fiscal conditions and government structure. There also was discussion of the System Guideline relating to environment, socioeconomics, and transportation (Section 7.3.2.2).

Issues raised by the commenters include the following:

- Increased government revenues
- Water quality
- Impacts on tourism
- Clearer documentation for the population in-migration model
- Impact to population groups
- Potential economic impact of increased salinization
- Increase in local unemployment
- Economic impacts
- Impact on local community services
- Mitigation measures
- Impacts to local standard of living
- Approach to impact mitigation
- Analysis of social problems
- Analysis of fiscal impacts
- Evaluation of the preclosure environment and of the preclosure socioeconomic and transportation systems.

Issue

Many commenters stated that guideline conclusions regarding increased government revenues, water quality, impact on the tourism sector of the economy, and the qualifying condition are not supported in the socioeconomic analysis.

Response

The DOE has reviewed the Section 6.2.1.7 analysis and has expanded the analysis presented to include additional support analysis from Section 5.4.

Concerning the government revenues analysis, the EA text has been revised to indicate that San Juan County will be eligible for grants-equal-to-tax-payments. Also, Nuclear Waste Policy Act (NWPA) (42 USC Sections 10101-10226) mitigation funds will be distributed from the DOE to compensate for costs of impacts related to the repository project. The mitigation funds in conjunction

with the population and economic growth due to the project will result in increased government revenues. This information will be clarified in Section 6.2.1.7 of the final EA.

The DOE has evaluated the impacts of salt storage on water quality. Because it has been determined that increased salination of the Colorado River will be insignificant (see Sections 5.1.3.4 and 5.1.4.3), the DOE believes that it is not necessary to address the economic impacts on downstream users.

Additional information on the recent changes in the regional economy and the pattern of economic inputs and outputs has been included in Section 3.6.4. Information on the gross receipts from the river-running industry has been incorporated into the analysis. Also, the attitudes of visitors toward the project are evaluated in Section 3.6.4.

Issue

Many commenters stated that recent declines in the mining industry have increased the local area's ability to absorb new population.

Response

The DOE reevaluated the data and further information has been obtained from the State of Utah. The recent suspension of area mining and milling operations has caused local socioeconomic conditions to change in terms of greater housing availability, higher unemployment rates, lower school enrollment, and greater out-migration. These changes have increased the ability of the local area to absorb new population. However, housing and services needs will still not be met for in-migrating repository workers and families.

C.7.4.1 Population Density and Distribution

Issue

Several commenters stated that the gravity model should consider additional factors which would increase the reliability of the results, specifically (1) weekly and daily commuters and speculative in-migration, (2) rural settlements and intervening communities, and (3) community attractiveness factors.

Response

In the draft EA, weekly and daily commuters are considered as single workers in the worst case analysis of the population in-migration model analysis. This will not be changed in the final EA. Although speculative in-migration is not considered in the EA beyond the peak work-force needs, actual tests of the model, using historical data from similar projects, indicate that

the model's projected in-migration values are valid (Goldsmith, 1984). Speculative in-migration and potential impacts to human services are addressed qualitatively in Section 5.4.4 of the EA.

The draft EA gravity model discussion already considers rural settlements. Section 5.4 of the draft EA states that "Five percent of the total expected in-migrants were allocated to smaller communities in Grand and San Juan Counties." An evaluation of Intermountain Power Project (IPP) settlement patterns, based on a 1982 IPP monitoring report (Paul Nelson Associates, Inc., 1982), revealed that intervening communities had little or no effect on settlement patterns.

The gravity model was used to allocate new residents to communities near the site at all of the salt study areas. It is one of several allocation models which can be used to determine the distribution of in-migrants to an area. The gravity model uses community size as a surrogate for other factors, such as housing availability, which can influence location decisions (see Section 5.4).

The gravity model was chosen because it is an established approach and because it does not require subjective judgements about community attractiveness. Furthermore, in a test of the gravity model using the 1982 IPP monitoring report (Paul Nelson Associates, Inc., 1982), it was shown that for an elasticity factor of two, the gravity model closely reflected the actual distribution of in-migrants.

Issue

Some commenters felt that the population in-migration model needs to be more clearly documented.

Response

The in-migration model was developed to estimate the number of new residents who will relocate to an area as a result of a nuclear waste repository site. A realistic, conservative-case scenario was used to estimate population in-migration at each of the salt sites. As with any projection model, the accuracy of the projections is somewhat uncertain. The model multipliers and inputs have been thoroughly researched, and the basis for each is provided. The references include the U.S. Census Bureau, F.L. Leistritz et al., Mountain West Research, and project monitoring reports. This research material provided a range of multipliers from which a range of high and low multipliers was established. The high case was selected as the "realistic conservative case" for use in the draft EAs. The realistic, conservative-case scenario is used in the analysis so that the possibility of underestimating impacts is minimized.

The historical replication did not include the indirect in-migration because no case study data was available to validate the model. This is a weak point for all models that project population in-migration due to specific projects. This variable requires additional empirical research; this problem has been recognized in the technical literature. The in-migration model's

indirect multipliers were based on local economic multipliers as research by Murdock and Leistritz (1979) and Goldsmith (1984) references in the documentation.

The Phipps Bend and Hartsville projects were used to validate the model (see Goldsmith, 1984). These projects were selected because adequate detail was provided in the TVA monitoring reports to support the validation process. As part of the validation effort, a sensitivity analysis was conducted. The purpose of a sensitivity analysis is to test (1) whether a positive change in each variable would result in a hypothesized change in total in-migration, and (2) the magnitude of the change. The process followed is consistent with model validation procedures. Some simultaneous changes were automatically considered because the internal structure of the model adjusts related variables (such as married and single workers). Further sensitivity analysis of simultaneous changes was not evaluated because of the linear structure of the model (see Figure 5-29 [In-Migration Model Logic of Calculations]). In response to commenters' concerns, the DOE has modified the EA to include additional documentation of the multipliers used in the model, as well as the basis for model assumptions, in Section 5.4.1 of the EA.

Issue

A few commenters felt that the analyses of impacts to population groups, inside and outside the study area, especially Native Americans, need to be expanded.

Response

Section 5.4.4 has been modified to incorporate a discussion of social and related economic effects on the Native American population. This discussion is based on work by Finsterbusch (1980), which examines social impacts to Mormon and Indian communities as a result of project booms.

Issue

Several commenters suggested that the EA contains inconsistencies in work-force size and in the use of air versus land miles.

Response

The DOE has examined the data on work-force size during the operations period, and has found an inconsistency between the data in Sections 5.4 and 5.3.3.1.2. This inconsistency has been removed. The DOE does not consider the use of both air and highway miles to be inconsistent. Air miles are used between the site and communities for the radiological guidelines. Highway miles are used in the gravity model to measure the distance which project workers would travel from their residences to the site.

Issue

One commenter felt that the job-training discussions needed more details, (e.g., required skills for repository workers and hiring policies toward local residents [especially Native Americans]) to evaluate the effectiveness of job training in reducing in-migration.

Response

The DOE has reexamined the discussion of job training and believes that no modification to the EA is required. The EA only proposes that measures exist which, if implemented, could reduce in-migration. The effectiveness of such measures as local job training and local hiring policies for other large-scale projects is discussed in Section 5.4.1.

C.7.4.2 Economic Conditions

Issue

Many commenters stated that the EA analyses of repository-related impacts on tourism are inadequate, such as visitor experiences, park values, the Canyonland's survey of visitors, regional tourism impact, visitor acceptance of industrial activities near parks.

Response

The DOE has evaluated the suggestions for improving the EA discussion of repository-related impacts on tourism. Section 5.5.1 of the EA has been changed to include discussions of many of the above factors.

Issue

One commenter felt that the potential economic impact of increased salinization of the Colorado River should be addressed.

Response

The DOE has evaluated the impacts of salt storage upon water quality. Because it has been determined that increased salinization of the Colorado River will be insignificant (see Sections 5.1.3.4 and 5.1.4.3), the DOE believes that it is not necessary to address the economic impact on downstream users.

Issue

Some commenters suggested that the EA should consider increased local unemployment rates in the assessment of repository-related jobs that could belong to local residents.

Response

The DOE will not weigh current unemployment heavily in the determination of local hires. Local unemployment rates are less important to an analysis of the percentage of local hires 10 years in the future than the size of the population base and the relative size of the construction and mining labor force. The DOE evaluated the current size of the population base, and the number of local construction and mining laborers, in a recalculation of the percentage of local hires. Under a conservative scenario, the expected percentage of local hires remained less than 5 percent of the total repository construction work force.

Issue

Several commenters felt that the analyses of economic impacts resulting from the different phases of the repository project are incomplete and inadequate because wage leakage, wage inflation, economic decline associated with decommissioning, and other factors are not appropriately considered.

Response

The DOE has evaluated the suggestions for improving the economic impact analysis of the repository project.

While the potential for economic leakage was discussed for the draft EA in Section 4.2.2, it was not specifically mentioned in Section 5.4.2. The low indirect employment multiplier for this site, in conjunction with the other rural salt sites, is an indication that leakage is expected. The DOE has modified the text in Section 5.4.2 to mention leakage.

Labor competition among the repository, local governments, and other employment sectors, is mentioned in Section 5.4.2.2.1. The DOE believes this discussion does not require modification.

Section 5.4.2.2.1 also notes that the displacement of some small businesses, in competition with the larger franchise suppliers of goods and services, will occur. This also does not require modification to the text.

Section 5.4.2.2.3 of the EA notes the potential for economic disruptions after the last year of operation. The ability of the area to absorb these losses will depend upon how diversified the local economy is at that time, and how effective mitigation and compensation efforts are. The DOE has changed the text in Section 5.4.2.2.3 to note that, unlike other boom-bust situations,

financial planning and policy measures can be taken by the DOE, the State of Utah, and the local governments to make the transition orderly. Examples of possible mitigation measures include expansion of the project schedule and use of mitigation funds by State and local governments to develop alternatives such as tourism, higher education, and other industries.

C.7.4.3 Community Services

Issue

Many commenters suggested that the analyses of repository-related impacts to local community services are not in enough detail to assess the level of mitigation needed.

Response

The DOE has evaluated the comments and has made clarifying additions to the text Sections 5.4.3 and 5.4.5. Because excess service capability is not considered for the new service demands at any of the salt sites (see Sections 5.4.3), and because a conservative case for in-migration was assumed, the Utah sites were projected to receive substantial impacts. Because the DOE expects the demand for services to increase substantially, the costs for mitigation are expected to be high. This has also been noted in Section 5.4.5. The information in the EA is sufficient to meet the requirements of 10 CFR 960.3-1-4-2 and Appendix IV.

Issue

A few commenters stated that initial impacts, preproject planning, and grants should be considered in the EA.

Response

The problem of initial impacts and the need for mitigation planning prior to construction authorization was discussed in Section 5.4.5.1.1 of the draft EA. The DOE has expanded this section of the text to describe what grants will be available to the State under Section 116(c)(1)(B) of the Nuclear Waste Policy Act of 1982 (NWPA) for funding pre-impact planning.

Issue

One commenter stated that mitigation measures for all phases of the project should be discussed in detail.

Response

The periods of greatest difficulty for mitigating community service impacts were identified in the draft EA as the construction phase, when demands for services and capital construction costs would be high, and during the caretaker phase and after decommissioning when potential out-migration could occur (EA Sections 5.4.3 and 5.4.5.1.3).

The EA contains the mitigation discussion for all phases of the repository project in Sections 5.4.3 and 5.4.5.1.3. These sections have been reviewed by the DOE and are considered adequate.

Issue

A few commenters felt that impacts to the local standard of living should be addressed, specifically, potential declines in the standard of living due to short-term service overloads, and shortages affecting the hard core unemployed, marginal ranchers, and female household heads.

Response

While the DOE stated in Section 5.4.3 of the draft EA that the development of a repository may result in an overall increase in the standard of living, EA Section 5.4.4 describes adverse impacts to the standard of living of some groups. The DOE has expanded the text of Section 5.4.4 to include a discussion of service delivery problems to these additional groups, based on Finsterbusch (1980).

C.7.4.4 Social Conditions

Issue

A few commenters suggested that a detailed approach to impact mitigation should be presented in the EA.

Response

The DOE believes that a detailed approach toward mitigating social problems associated with repository is not required for the EA. The DOE believes that recognition of and suggested approaches for reducing social problems are only the first steps in the process of developing a detailed approach toward mitigation. This is a process which is provided for in the Nuclear Waste Policy Act of 1982 (NWPA) (42 USC Sections 10101-10226) and is noted in Section 5.4.5.1.1 of the EA.

Issue

Several commenters stated that the analysis of social problems is not adequate.

Response

The DOE evaluated the EA discussion of social impacts and has made a number of modifications.

Section 5.4.4 has been modified to include a discussion of boomtown impacts on Mormon culture.

In addition to new text on the Mormon culture, the DOE has included a discussion of the social impacts that may be incurred by the Native American population. This discussion is based upon new data in Section 3.6.4 and Finsterbusch's (1980) discussion of boomtown impacts to Indian communities.

Speculative in-migration was not addressed in the draft EA. The DOE recognizes that if it does occur it will have immediate impacts on area human service provisions, because the persons moving to the region will be unemployed. Based on the boomtown literature, the text has been modified to discuss potential impacts to human services from members of non-employed households in-migrating to the area in hopes of gaining employment.

Section 5.4.4 suggests that the social problems created would be dramatic for Monticello and the other area communities, based on the literature surveyed.

C.7.4.5 Fiscal Conditions and Government Structure

Issue

A few commenters suggested that the analysis of fiscal impacts is incomplete because several funding problems are not addressed, e.g., the lack of grants-equal-to-tax-payments to Moab, unequal distribution of tax revenues compared to expenditures, responsibility for emergency preparedness costs, and road construction and maintenance costs.

Response

The DOE has examined the comments which were suggested for improving the fiscal analysis appearing in the EA and has noted in the EA that Grand County, and the communities of Moab, Blanding, and Monticello will not be eligible for grants-equal-to-taxes. However, the EA notes in Section 5.4.5.1.1 that Nuclear Waste Policy Act of 1982 (NWPA) (42 USC Sections 10101-10226) mitigation funds will be distributed by the State to the communities in accordance with agreements then in existence. These agreements could conceivably be used to fund any

cost which would not be incurred by local governments under normal circumstances, and for which other revenue sources were not available.

Issue

A few commenters noted that the government structure analysis is not adequate because it does not consider the need for additional governmental staff for local jurisdictions and agencies, e.g., additional resource protection staff for the park.

Response

The DOE has examined the suggestions for improving the government structure impact analysis in the EA and has included a discussion of the need for additional resource protection staff in the Needles District of the Canyonlands National Park in EA Section 5.4.5.2.

Issue

A few commenters stated that the difficulty of attracting qualified professional individuals to a boomtown setting should be addressed.

Response

DOE has reevaluated the data and agrees that there have been difficulties in attracting medical, human services, and other personnel in boomtown environments (Finsterbusch, 1980). Section 5.4.5 of the EA has been supplemented with a discussion of these difficulties and their potential mitigation.

C.7.5 SYSTEM GUIDELINE

The purpose of the preclosure System Guideline on environment, socioeconomics, and transportation is to establish the overall objectives to be met by a repository during the preclosure phase. Following is a summary of the issue raised regarding this guideline for the Davis Canyon site.

Issue

The DOE received numerous comments on its evaluation of the preclosure environment, socioeconomics, and transportation System Guideline and the analyses supporting the System Guideline evaluation. Commenters also challenged the accuracy and adequacy of evaluations and data which support the DOE findings for the environmental quality Technical Guideline 960.5-2-5 (EA Section 6.2.1.6),

socioeconomic impact guideline 960.5-1-6 (EA Section 6.2.1.7), and transportation guideline 960.5-2-7 (EA Section 6.2.1.8). Major areas of concern that have been identified by commenters which specifically relate to this System Guideline finding for the Davis Canyon site are noted below.

Several commenters consistently indicated that the inadequacy of the environmental data base led to an understatement of the environmental resources. Hence, the impact analysis was said to be inadequate since impacts were determined using an inadequate data base. A few commenters indicated that insufficient recognition of the importance and significance of Canyonlands National Park is reflected in the System Guideline evaluation.

One commenter stated that the ability to comply with State statutes and Federal regulations was not addressed. Another commenter requested a more comprehensible discussion of statutes and regulations. One commenter also indicated that the organization of the EA caused difficulty in interpreting the baseline data, proposed activities, and impacts.

Response

The specific issues raised for these Technical Guidelines were presented previously in CRD Sections C.7.1, C.7.2, C.7.3, and C.7.4. The DOE has incorporated additional data and impact analysis, especially related to the Canyonlands National Park, into the final EAs. The DOE has collected additional data from Federal agencies and has conducted additional studies. The DOE believes that the data base and the conclusions determined from this data base are adequate and sufficient for satisfying the application of the System and Technical Guidelines during the siting process and the types of information for the nomination of sites as suitable for characterization as specified in Appendices III and IV, respectively, of the Final Siting Guidelines for the Recommendation of Sites for the Nuclear Waste Repositories (10 CFR Part 960).

The conceptual repository engineering designs presented in Chapter 5 and the proposed site characterization activities in Chapter 4 of the final EA have been expanded to include various types of possible control and mitigative measures that, from a technological perspective, have previously been proven effective in lessening or essentially eliminating various significant adverse environmental impacts. These measures form the basis for realistically but conservatively estimating the mitigation of impacts as discussed in Section 6.2.2.2 and Table 6-4 (Measures to Control Potential Adverse Environmental Impacts) of the final EA.

Additional information and analysis related to potential impacts to the Canyonlands National Park have been incorporated throughout various sections of the final EA. A summary of impacts to Canyonlands National Park has been added to the environmental quality Technical Guideline discussion in Section 6.2.1.6 and to the preclosure environment, socioeconomic, and transportation guideline discussion in Section 6.2.2.2. The DOE has reexamined the impact site characterization and repository activities could have in the park and surrounding areas and has incorporated extensive new mitigative measures within the final EA

in order to lessen these impacts. The DOE still maintains that impacts on Canyonlands National Park can be mitigated so that no irreconcilable or irreversible cumulative effects will occur. The DOE has incorporated a summary section on the impacts to Canyonlands National Park as well as a summary of cumulative environmental impacts to the site and site area.

Statutory and regulatory compliance requirements, especially concerning air quality in the vicinity of a Class I area such as the Canyonlands National Park, are complex because of overlapping jurisdictional standards. Extensive mitigative measures are added to minimize any potential conflicts. The final EA text and tables have been revised to more clearly state all regulatory compliance requirements, as appropriate, for each of the final EA sections as well as an assessment of the feasibility to comply with these requirements. The DOE concludes that compliance can be met on all of the various regulatory requirements.

The DOE believes that the content and format of the EA is adequate and responsive to the requirement of Section 112 of the Nuclear Waste Policy Act. The final EA, however, for reader convenience and understandability, has been modified to include new summary sections (e.g., for salt impacts) and additional references to other applicable sections of the document.

The System Guideline conclusion that the evidence does not support a finding that the site is not likely to meet the qualifying condition remains unchanged.

C.7.6 CHAPTER C.7 REFERENCES

C.7.6.1 References Listed by Author

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U.S. Department of Energy, 1984. Draft Enviornmental and Socioeconomic Considerations of Locating a Nuclear Waste Repository Near Canyonlands National Park, Utah, prepared for Salt Repository Project Office by Office of Nuclear Waste Isolation, Battelle Project Management Division, Columbus, OH, in preparation.

C.7.6.2 Federal Regulations and Statutes and Executive Orders

10 CFR Part 60, Disposal of High-Level Radioactive Wastes in Geologic Repositories; Technical Criteria.

10 CFR Part 960, Nuclear Waste Policy Act of 1982; General Guidelines for the Recommendation of Sites for the Nuclear Waste Repositories; Final Siting Guidelines.

36 CFR Part 800, Procedures for the Protection of Historic and Cultural Properties.

43 CFR Part 1600, Planning, Programming, Budgeting.

Bald and Golden Eagle Protection Act, 16 USC Secs. 668-668d.

Endangered Species Act of 1973, 16 USC Secs. 1531-1543.

Federal Land Policy and Management Act of 1976, 43 USC Secs. 1701-1782.

Fish and Wildlife Coordination Act, 16 USC Secs. 661-666c.

Interstate Commerce Act, Part II; Motor Carriers, 49 USC Section 303, Definitions.

Migratory Bird Treaty Act, as amended, 16 USC Secs. 703-711.

National Historic Preservation Act of 1966, as amended, 16 USC Secs. 470-470w-6.

National Wildlife Refuge System Administration Act of 1966, 16 USC Secs. 668dd-668ee.

Nuclear Waste Policy Act of 1982, 42 USC Secs. 10101-10226.

Organic Act of the National Park Service, 16 USC Sec. 1.

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Preservation of Parklands, 23 USC Sec. 138.

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U.S. Department of Transportation Acts, see Interstate Commerce Act and Preservation of Parklands.

Wild and Scenic Rivers Act, 16 USC Secs. 1271-1287.

Wilderness Act, 16 USC Secs. 1131-1136.

EO 11988, Compliance with Floodplain Environmental Review Requirements.

Floodplain Executive Order.

EO 11990, Protection of Wetlands, May 24, 1977.

C.7.6.3 State of Utah Laws

Mined Land Reclamation Act, Utah Code Ann. Secs. 40-8-1 et seq. (1981 ed. & Supp. 1983).

Solid Waste Management Act of Utah, Utah Code Ann. Sec. 26-32, and Solid Waste Disposal Regulations.

C.8 EASE AND COST OF SITING, CONSTRUCTION, OPERATION, AND CLOSURE

A number of reviewers of the draft EA requested additional information on criteria which make the Davis Canyon site conceptually suitable for locating a nuclear waste repository when factors are considered which assess the ultimate cost of the repository. These factors are covered in the EA Section 7.3.3 comparing the sites on the basis of preclosure guidelines regarding the ease and cost of siting, construction, operation, and closure.

C.8.1 SURFACE CHARACTERISTICS

A number of commenters requested further information on surface characteristics of the site.

Issues raised by the commenters include whether the repository location would be located within the 100-year and 500-year floodplains.

Issue

Two commenters noted that the EA was inadequate in addressing whether the proposed repository location in Davis Canyon would be located within the 100-year and 500-year floodplains. Specific concerns involved appropriate references for delineation of the 500-year floodplain. A commenter felt that the proposed site also includes the 100-year floodplain of an unnamed tributary to Davis Canyon.

Response

The DOE has checked references for delineation of the 100-year and PMF floodplains. Because the 100-year and 500-year floodplains are contained within the PMF floodplain, the draft EA references to the 500-year floodplain have been deleted from Section 6.3.3.1.1 and replaced with PMF (BGI, 1983, ONWI-476).

C.8.2 ROCK CHARACTERISTICS

There was concern expressed by a number of reviewers about rock characteristics which could affect the constructibility of a repository. Further information on factors which could affect constructibility is developed in parts of Chapters 3 and 6 of the EA which deal with rock characteristics at the site.

Issues raised by the commenters include the following:

- Effects of discontinuities, heterogeneities, and impurities on rock mass behavior
- Variations in rock and soil measurements
- Repository geoengineering-related design concerns
- Retrievability of waste canisters
- Performance concerns with respect to the construction, operation, and decommissioning of the shafts
- In situ stress
- Coupled-effects performance scenarios
- Definition of "the disturbed zone."

Issue

Some commenters stated that the effects of discontinuities, heterogeneities, and impurities on rock mass behavior and rock mass characteristics need to be addressed. The discontinuities, heterogeneities, and impurities can be categorized as follows: joints and fractures in rock units, interbeds, gas and brine pockets, rock mass property anisotropy, and impurities that significantly affect rock behavior (in particular carnallite).

A commenter stated that, in particular, uncertainties related to the preclosure implications should be discussed.

Response

The DOE has considered the issue and clarified the discussion in Section 3.2.6 of the EA. Section 6.3.3.2.1 has been expanded to discuss the uncertainties related to the presence of heterogeneities and discontinuities, as summarized below.

The data on rock characteristics contained in Section 3.2.6 of the EA are generally limited to geomechanical and thermal properties of intact rock, together with a few small-scale in situ tests in a borehole to measure deformation characteristics. Some petrological and geochemical analyses have also been done on intact rock core samples, and these examinations have identified some discontinuities, heterogeneities, and impurities in the microfabric of the rock samples. Thus far, however, no significant effects from these on the intact rock performance in standard and elevated temperature laboratory tests have been detected.

The program of rock mechanics testing of intact rock samples to be conducted during site characterization has not been completed; therefore, the complete range of discontinuities, heterogeneities, and impurities have not been sampled (microfabric or large scale).

The response to the kerogen and carnallite in the repository host rock under elevated temperature conditions from the waste heat is discussed in Sections 6.3.3.2 and 6.3.1.2. Section 6.3.3.2 was clarified on the basis of information previously reported in the draft EA to reemphasize that the proposed information lies outside of the depositional limit of potash salts; therefore, Salt Cycle 6 should contain lower concentrations of carnallite than that found in borehole GD-1. Limited data suggest that carnallite creeps very much like salt when heated at 200 C (392 F) for 30 days, a temperature significantly above the dehydration and "melting" temperatures reported by the commenter.

Section 6.3.3.2 was clarified to indicate that because of the relatively small amounts of carnallite, distance from repository horizon, and low permeability of salt, it is unlikely that any water released through dehydration of carnallite (which should be minimal for expected temperatures) should reach the waste package and increase corrosion.

With respect to the existence of gas and brine pockets, only minute trace detections of gas were made in drilling for the environmental assessments at Paradox and no brine pockets of any size were encountered thus far during drilling.

The uncertainties that are inherent in attempting to fully quantify types of rock discontinuities have a number of implications for preclosure conditions. For example, the extent of joints and fractures in the rock mass generally dictates the extent of rock reinforcement or support needed to ensure stable excavations. This may range from occasional, short rock bolts, to closely-spaced, deep rock bolts, or even to rolled-steel roof supports. This scale of increasing support needs is coincident with a scale of increasing time and costs needed to do the work. There is a significant degree of uncertainty regarding the lateral variation that may exist in the site-specific area. The potential for gas and brine pockets translates to a need for increased care and safety in advancing an excavation heading, such as by doing borehole probing ahead of the face, and by bringing up ample ventilation and dewatering capability behind the face. Again, current vertical drilling data have not yet exposed any significant evidence of gas and brine pockets, but a level of uncertainty is still present.

Issue

A few commenters indicated that the rock and soil properties measurements presented may vary in several ways and that these need to be discussed. These properties may vary between laboratory and in situ test behavior and rock mass behavior, or they may vary among various locations, even if general characteristics appear quite similar. The source of these variations may be any of the following and should be addressed:

- Variations from location to location due to natural spatial variation from place to place, lack of a statistically representative number of measurements, or technical uncertainties in making extrapolations

- Variations between laboratory and in situ test measurements and rock mass behavior for a single location due to natural spatial variation, the effects of the scale of the area or specimen tested as compared to a large rock mass, or lack of statistically representative and spatially representative measurements.

A commenter stated that, in particular, uncertainties related to the preclosure implications should be discussed.

Response

The DOE agrees that there can be a variation in rock properties from one location to another and, except for some thermal properties, the mechanical properties reported in the EA are indeed based on a single, deep borehole (GD-1 in Gibson Dome) continuously cored to the repository horizon and below. All the thermal properties are reported from only two boreholes, including GD-1. However, it is considered that the wide, natural variability of the intact elastic rock media is already evident in test results from GD-1.

For the second aspect of the issue, it is acknowledged that a great deal of uncertainty exists in selecting appropriate scaling factors to be applied to any laboratory test data in order to predict large scale rock mass behavior. The few in situ tests reported in the draft EA are useful but do not provide enough data for statistical analysis. Larger sample size is needed to predict rock mass behavior properties in detail for typical repository openings.

The DOE has expanded and clarified the text in Sections 3.2.6 of the EA to include a discussion of the uncertainties related to the concerns expressed here. The DOE has modified Section 6.3.3.2 in consideration of the above, in particular, emphasizing the uncertainty of the analyses.

Issue

Some commenters noted that a number of repository geoengineering-related design concerns require further discussion. Broadly, these are constraints on the flexibility for construction due to the lateral and vertical extent of the host horizon, the feasibility and effectiveness of roof support techniques in the bedded salt sites described, stresses on the waste package due to salt creep, the associated canister stress concentrations introduced by interbeds, and maintenance of underground openings.

Response

The DOE has considered the issues and clarified the related discussions in Section 3.2.6 of the EA. DOE has modified Section 6.3.3.2 of the EA to reflect the following discussion.

The stratigraphy for Davis Canyon site is described in Section 3.2.3.2 of the EA. The host salt sequence is essentially unlimited in lateral extent. However, overburden load due to the Canyon walls limits expansion of the repository somewhat. The repository can be expanded in the Canyon area. Both lateral and vertical extent of the host rock formation appear to be sufficiently large to not place constraints on repository design.

Slow, continual creep of salt is not directly a problem, although it may affect repository functions over a period of time. Salt creep may, however, create local instabilities. Some combination of roof bolts, stress control mining, steel arch canopies, and other techniques should be successful in temporary control of local unstable conditions.

The underground openings will slowly close due to salt creep. Elevated temperatures due to the emplaced waste will result in higher than normal creep rates. Other than causing possible roof stability concerns, this phenomenon does not seriously constrain design. Openings can either be overcut to allow for creep or they can be kept open by periodic rescaling.

Issue

Some commenters stated that the retrievability of waste canisters from a backfilled room in salt poses a number of questions which need to be addressed. The main questions relate to the following: creep of salt, excavation technology required to excavate consolidated salt backfill without damaging waste canisters, and the method of determining the locations of canisters within consolidated salt.

Response

The DOE has modified Section 6.3.3.2 to reflect the following discussion.

Creep of salt applies to two retrievability issues, reexcavation of waste rooms and removal of canisters from emplacement holes. Even with early backfilling, substantial closure of waste rooms prior to retrieval operations is likely. In order to provide the room height needed for overcoring (if needed - see below) or for lifting waste packages from the holes, remining will be needed to remove some in situ salt, mostly from the roof, in addition to the consolidated backfill. Remining backfill and in situ salt can be accomplished by the same techniques as original waste room excavation with the addition of needed cooling and more intensive ground support measures.

If waste packages are placed in open holes, either with or without crushed salt backfill, the creep of the in situ salt is expected to close the air gap around the hole shortly after emplacement. The waste package is designed to withstand any stress resulting from the closure, but removal of the package, in this case, may require overcoring. This emplacement mode, however, is only the simplest of several contemplated by the DOE which include, but are not limited to, horizontal emplacement of one or more canisters in holes drilled into the pillar between rooms, the use of large holes without backfill, the use of steel or concrete sleeves to line emplacement holes, and combinations of these methods. The use of sleeves, for example, should eliminate concerns about the effect of creep closure on location and removal of waste packages in retrieval operations.

The EA describes only the simplest scheme for waste emplacement, i.e., a single row of vertical holes in the floor of the storage room with each hole containing a single vertically placed waste package surrounded by crushed salt. Creep of the in situ salt at elevated temperatures surrounding the canister will reconsolidate the crushed salt and put a compressive stress on the waste package surface. This clamping action will prevent the retrieval of the waste form without either opening the waste package overpack or overcoring or re-excavating the waste package.

A variety of location techniques are available including surveying from permanent monuments located outside the high temperature area, metal detectors, radioactivity detectors, and earth penetrating radar which, when used by themselves or in combination, can provide sufficiently accurate position data to reduce the safe overcoring diameter to an acceptable size.

Notwithstanding the preceeding discussion, the potential for deleterious rock mass response to higher than ambient temperatures during repository operation is uncertain. It is not possible at the present time to estimate support requirements for retrieval, which is considered part of repository operation as defined in 10 CFR 960.2. It is for this reason that the finding for the second favorable condition (Section 6.3.3.2) or the rock characteristics guideline (10 CFR 960.5-2-9[b][2]) has been changed to "the evidence indicates that the favorable condition is <u>not</u> present."

<u>Issue</u>

A few commenters noted that a number of performance concerns with respect to the construction, operation, and decommissioning of the shafts need investigation and should be discussed. Broadly these are the performance of seals in the shaft during construction and operation, and the stability and deformation of the shaft with time as it undergoes thermal loading.

Response

The DOE has considered the issue indicated and has modified and clarified the related discussions in Section 5.1 of the EA. Section 6.3.3.2 has been modified to reflect the following discussion.

The use of ground-freezing technology for shaft sinking is a well understood and viable technique for sinking shafts through well-consolidated or poorly consolidated ground that is partially or fully saturated with water. The process can be applied to soil or rocks that contain pore water or water in fractures. Shaft sinking by the freezing method has been accomplished in salt mines. However, the strict sealing requirements for repository shafts would require a slightly different approach than used in the past.

The freezing method appears to have minimal impact on mechanical properties, although clay partings may deform when frozen. If the freezing and thawing cycle results in increased permeability immediately adjacent to the shaft, the potential downward flow can be controlled with installation of a grout curtain or an impermeable keyway below the freeze region.

Two types of shaft seals need to be recognized. One type will be installed during shaft construction to prevent the flooding of the underground workings by aquifers and also to prevent contamination of the aquifers themselves. A second type of seal will be installed during shaft decommissioning as the shaft is being backfilled. The purpose of this type is to prevent access of surface and aquifer water to the repository level and vice versa. The first type (construction timeframe) is a preclosure seal whereas the second type (backfill) is a postclosure seal.

With regard to concerns that the disturbed zone around the shaft seal system had been neglected, analyses of Gureghian et al. (1983, ONWI-494) were made assuming that main flow was through the seals only. Even if water flow short-circuited through a disturbed zone around the shaft-seals in the overlying non-salt units, flow would likely be blocked upon contact with the repository salt unit for many reasons. Most importantly, any salt dissolution through any available pathway will quickly stop without a mechanism to cycle fresh water in and out of the salt. Given the large distances that the sealed shafts will be located from any repository rooms containing waste, it is unlikely under expected site conditions, that massive amounts of dissolution could occur around the shafts to uncover any waste.

The thermal pulse from the repository has been estimated to be 1 to 2 C (2 to 4 F) at the base of the shaft after 1,000 years. This small temperature change should have a negligible effect on the stability and deformation of the shaft, as well as minimal effect on the shaft seals. Accordingly, this issue is not considered in the EA.

Issue

A few commenters indicated that a more comprehensive discussion of the in situ stress needs to be provided. In particular, the following areas need to be discussed: interpretation of existing stress measurements and an evaluation of the limitations of the measurement methods utilized.

Response

The DOE has considered the issue and clarified the discussion presented in Section 3.2.6 of the EA based on the observations that follow.

The DOE's interpretation of the existing stress measurements is based in part on research that demonstrated in a series of laboratory experiments that conventional hydraulic fracturing testing and analysis techniques determined minimum stress for applied hydrostatic stress conditions on a salt sample. Hydraulic fracturing, however, overestimated minimum stress for applied non-hydrostatic stress conditions. These results show that although the hydraulic fracturing results in salt were not time-dependent, measurement data were otherwise inconsistent with elastic behavior, and were insensitive to the range of nonhydrostatic stress conditions applied to the test specimens.

Research results show that the subgrain size of a salt sample is a function of the maximum stress difference ever imposed on the sample in past time. The subgrain size data for Paradox Basin rock salt can be interpreted to infer a near-hydrostatic stress condition in Paradox salt.

The minimum horizontal stress was analyzed as approximately equal to the lithostatic pressure of the overburden. The DOE tentatively interprets this result to be correct in view of an inferred hydrostatic stress condition for determining minimum stress by hydraulic fracturing in salt under hydrostatic stress conditions.

Issue

Commenters indicated that a number of coupled-effects performance scenarios need to be addressed more extensively, specifically, the thermochemical, thermo-hydrologic, and thermomechanical (e.g., fracture healing, scaling, effects on the engineering properties of the rock mass).

Response

Section 6.3.3.2 has been modified to reflect the following discussion and in particular emphasize the uncertainties involved.

Significant amounts of hydrocarbons will not be generated in the kerogen-bearing interbed overlying Salt 6 because the maximum temperature reached in the interbed will not be sufficient. Furthermore, the heat impact from the emplaced

waste lasts only about 1,000 years, after which the temperature of the salt will have returned almost to its initial temperature. This heating period is short relative to the natural heating episodes that produce natural gas and petroleum. Therefore, the amount of any additional overpressuring caused by heat from the emplaced waste is expected to be a minor effect.

Several specific thermochemical concerns were mentioned by reviewers. First, the possibility that brine inclusions might move away from the waste package was mentioned as a possible mechanism for radionuclide transport. Brine inclusions containing a vapor phase do indeed travel away from a heat source. However, once the intergranular boundary is reached, intergranular flow is expected to take over. Inclusions can actually cross crystal boundaries and continue to migrate as inclusions. This has been observed experimentally, but only under the influence of a large temperature gradient. The temperature gradients in a repository would be too small to drive this type of migration. Therefore, brine migration is not expected to contribute significantly to radionuclide release.

The DOE has also reexamined the concern that the threshold gradient case should not be used as the expected condition because of the controversy over the threshold gradient concept. Because the conclusions drawn in the EA analyses were essentially unaffected by this decision, and because of the strong theoretical arguments favoring the existence of a threshold gradient, the EAs will continue to label the threshold gradient case as the expected condition.

A concern was expressed with regard to the effects of heat on the strength of the host rock horizon as a result of the carnallite present in it. The entire carnallite marker bed averages 2.4 weight percent of carnallite with some thin layers (1 to 28 centimeters [0.4 to 11.0 inches]) containing at least 50 percent carnallite. The proposed repository lies outside of the depositional limit of potash salts; therefore, Salt Cycle 6 should contain lower concentrations of carnallite than that found in GD-1. Limited data suggest that carnallite creeps very much like salt when heated at 200 C (392 F) for 30 days. This temperature at 200 C (392 F) significantly exceeds the hydration temperature of carnallite of 50 to 100 C (122 to 212 F) and "melting" temperature of 130 to 165 C (266 to 329 F) as reported by one commenter. In addition, data show that the strength of carnallite varies with temperature in the mid-range of possible "strength" data for salt (i.e., it is no weaker than salt at equivalent temperatures). Existing evidence supports the finding that geochemical changes due to increased temperatures will not degrade carnallite of rock "strength" in excess of that expected for salt. Furthermore, the similar creep and "yield" behavior of carnallite suggests that carnallite will have many of the self-heating characteristics of salt. Finally, because of the relatively small amounts of carnallite, distance from repository horizon, and low permeability of salt, it is unlikely that any water released through dehydration of carnallite (which should be minimal for expected temperatures) should reach the waste package and increase corrosion.

The DOE has concluded that at the maximum salt design temperature of 250 C (482 F) and at the expected radiation levels that negligible amounts of new

brines or chlorine gas will be generated, and that they will not pose a threat to the workers or the general public.

Concerns were noted about thermomechanical effects such as thermal decrepitation and fracture healing at Davis Canyon; no thermal decrepitation of the tested salt samples occurred up to a temperature of 450 C (842 F) (Senseny, 1983, ONWI-9[83-1]), which is considerably higher than the recommended design peak salt temperature of 250 C (482 F). There is no evidence to suggest that likely impurities in the salt in the vicinity of the waste packages would lower the temperature at which thermal decrepitation of the salt occurs to below 250 C (482 F). Lithostatic stresses and heat generated by nuclear waste should close and heal fractures in the salt.

Room-scale calculations performed using a viscoelastic constitutive model indicated that vertical closure along the roof-floor centerline would approach 0.5 meters (1.6 feet) in five years for 5.5-by-5.5-meter (18-by-18-foot) rooms in Paradox salt. In existing salt mines, openings up to 30 feet (9.1 meters) wide generally stand unsupported. In general, the closure that is measured is due to the slow creep of the salt into the excavation resulting in heaving of the floor, sagging of the roof and convergence of the walls. These movements are generally predictable and are routinely handled in the mining process.

The effect of prolonged heating on the failure mechanism of salt tunnels is not well understood, because the empirical data base is limited. At Project Salt Vault the floor area in Rooms 1 and 4 uplifted very rapidly when the heaters were turned on, but this uplift slowed to a nearly constant rate.

The DOE concludes that thermomechanical calculations can reasonably predict the amount of room closures and far-field behavior due to creep in the salt host rock. However, these thermomechanical calculations are not very reliable when predicting the response of underground tunnels in the early stages of heating.

Issue

Some commenters stated that the extent of the disturbed zone needs to be defined realistically. The major disturbances appear initially to be mechanical due to excavation, later thermal effects become significant.

Other commenters mentioned mechanical responses due to disturbances consist of the following: fracturing due to excavation or excessive deformation; deformations due to stress changes, subsidence, heave, creep, and other forms of disturbance; salt decrepitation if salt temperature exceeds a certain threshold; and expansion of the rock mass due to thermal load.

Response

Section 6.3.3.2 has been modified to reflect the following discussion. The DOE has revised Appendix 6A to clearly state that the description of the disturbed zone is preliminary. As a result of reassessment the estimated extent of the disturbed zone has been increased in the EA.

The DOE has reviewed the existing data and believes that previous uplift and subsidence calculations have overestimated potential effects. The DOE plans no revisions regarding uplift and subsidence for the EAs.

The DOE has reviewed generic data for domal and bedded salts and has modified conclusions in the EA to increase the thermomechanically "disturbed zone" to 15 meters (49.2 feet). The DOE has also revised the EA text for clarity and to include a review of available generic information.

The question on whether salt "heated by radioactivity" would retain its self-healing properties alludes to thermal decrepitation and effects of irradiation on the mechanical properties of salt. The DOE has reevaluated the data and found no change of the EA is required.

Laboratory testing indicates confined salt specimens start decrepitation (disaggregation) at a temperature of 450 C (842 F). The design temperature of a repository will not exceed 250 C (482 F) (not 1500 C [2,732 F]), which is considerably less.

C.8.3 PRECLOSURE HYDROLOGY

Issues relating to preclosure hydrology, particularly to shaft sealing, were raised by a number of commenters. These issues are addressed in sections of the EA which discuss repository design at the site.

Issues raised by the commenters include the following:

- Extrapolation of data
- Shaft sealing
- Estimates of required water quantities
- Assessment of alternative sources of water.

Issue

A commenter questioned the extrapolation of data from a single borehole (GD-1) and from the exploratory shaft facility to the repository site.

Response

Geohydrologic data have been extrapolated from GD-1 and numerous oil and gas exploration wells to the repository site. Section 3.2 of the EA discusses additional geologic and hydrologic data that constitute the data base for the site. The information obtained by this approach is adequate for purposes of nominating a site as suitable for characterization.

Issue

Two commenters stated that the discussions on shaft sealing in the EA inadequately address the effectiveness of the shaft seals in preventing hydraulic connection of aquifers and standard engineering practices for dealing with water inflows.

Response

The DOE has expanded Section 5.1.4.2 of the EA to show the current design concepts for sealing the underground openings, shafts, and boreholes to more clearly identify the technology to be used. Data from site characterization are needed to finalize the design in areas such as location of bulkhead seals, seismic efforts, thermal effects, disturbed zone extent, and effects of subsidence.

Piezometers installed behind the shaft liners will allow monitoring, during the operational phase, of the hydraulic heads in the various formation and allow detection of leaks behind the liner. Grout can be pumped through access holes in the liner to seal off any leaks before significant hydraulic connection between aquifers occurs.

Issue

One commenter stated the following concerns about water sources for the repository:

1. The estimates of required water quantities do not clearly indicate that they include water to control salt and particulates and to revegetate and restore habitats.

2. Assessment of alternative sources of water and associated impacts is inadequate.

Response

The DOE has revised Table 5-1 (Comparison of Alternative Repository Design Concepts) in the EA to clarify the water requirements. Although water resources other than the Colorado River exist (e.g., wells), they will need to be investigated further during the site characterization phase. A comprehensive

analysis of alternatives will be included in the repository environmental impact statement if the site is selected for repository construction.

C.8.4 PRECLOSURE TECTONICS

The potential of the site for induced seismicity was discussed and questioned by several commenters. Seismic issues are related to discussions in EA Chapters 3 and 6.

Issues raised by the commenters include the following:

- Seismic design methodology and parameters
- Contradictory values given for peak accelerations
- Potential earthquakes
- Potentially adverse conditions for induced seismicity.

Issue

Several commenters stated that seismic design methodology and parameters used for nuclear power plants are not appropriate for repositories.

Response

The DOE has rewritten the text for clarity and has indicated that the expected levels of ground motion are moderate in relation to design levels used at some nuclear power facilities. Although design criteria and methodology have not been fixed at this time, nuclear power plant experience will be one basis for specifying the new methodologies and criteria. The DOE has revised the EA in response to this comment in Section 6.3.3.4.

Issue

Several commenters stated that contradictory values are given for peak accelerations at different places in the text.

Response

The value in Section 6.3.3.4.2 of the draft EA was in error and should have been reported as 0.30 gravity for a conservative, upper-bound value. The revised EA now uses 0.25 gravity as a mean-value estimate in accord with the intent of the guideline in Section 6.3.3.4.2. The guideline is interpreted as considering the relative cost to provide earthquake resistant facilities. About 90 percent of U.S. nuclear power plants have been built for design levels of 0.20 gravity or less. Therefore, the DOE criterion is that a mean-value estimate for peak acceleration of 0.15 gravity, or less, is significantly less than

generally allowable. For Davis Canyon, the estimated mean-value for peak acceleration is 0.25 gravity. Therefore, the favorable condition is not present. The DOE has revised the EA text in Section 6.3.3.4.2 and changed the finding in response to comments.

Issue

Several commenters stated that a potentially adverse condition appears to be present because larger earthquakes could occur in the future than have been observed historically.

Response

The DOE has rewritten the text for clarity and has indicated that the guideline is interpreted as relying on evidence of young faulting to estimate future earthquakes during the preclosure period and on the historic seismicity record as a baseline for seismic activity. The historical seismicity record over the past 80 to 100 years is taken as the most likely representation of seismicity over the next 50 years, unless there is contrary evidence for likely events from young faulting in the geologic setting. None of the faults in the geologic setting is known to have moved in the Holocene, the past 10,000 years (Section 3.2.5.1). Therefore, any movement on these faults in the next 50 years is judged to be unlikely, and the potentially adverse condition is not present. The DOE has revised the EA finding in response to these comments in Section 6.3.3.4.3.

Issue

Some commenters stated that the potentially adverse condition for induced seismicity appears to be present because of examples in the region.

Response

The DOE has rewritten the text for clarity and has indicated there may be a potential for induced seismicity at the site. Induced seismicity that would adversely affect a repository is not expected. Regional examples of induced seismicity have unique local tectonic characteristics that are not present at the Davis Canyon site. The potash mine near Moab is in the crest of a young anticline with faulting recognized at the surface. The induced events are thought to be related to subsidence of overlying rocks as product is removed from the mine. The coal mines at Book Cliffs are at the edge of a high plateau and in a "ridge and canyon" topography that can affect the near-surface stress fields. The deep canyons provide free surfaces that are in the vicinity of the mines and extend to the mine levels. The DOE has revised the EA in response to this comment in Section 6.3.3.4.3.

Issue

Some commenters stated that the EA should present a single map showing earthquake epicenters and tectonic features.

Response

The DOE has modified Figure 3-30 (Seismicity of the Paradox Basin, July 1979 to July 1983) to also show the major tectonic features and faults.

Issue

A few commenters stated that the EA should provide additional data on the seismicity cluster along the Colorado Lineament as it can affect estimates of the peak ground motion.

Response

The DOE has rewritten the EA and has added a description of the approach for estimating peak gravity values for maximum earthquakes. The EA indicates that conservative estimates were made for maximum earthquakes from several potential sources. From the analyses, the most severe case was taken as the maximum earthquake affecting the site. The "worst case" was a magnitude 6.5 shock along the Shay Graben. This nearby shock overshadows the effects of the largest shocks postulated along the Colorado Lineament. The DOE has revised the EA in response to these comments in Sections 3.2.5.2 and 6.3.3.4.

Issue

One commenter stated that the discussion of the disqualifying condition in Section 6.3.3.4 should more fully address the uncertainties associated with fault activity.

Response

The DOE has reviewed the text and determined that no modification of the EA is required by this comment. The siting approach was to avoid known faults that have the potential for causing loss of repository isolation. By using conservative assumptions, the earthquake analysis method in the EA obviates the need to quantify uncertainties at this stage of site evaluation.

C.8.5 SYSTEM GUIDELINE

Questions relating to the performance of a repository at the Davis Canyon site as an integrated system were considered as part of the preclosure siting guidelines. Performance issues are related particularly to sections of Chapters 5 and 6 of the EA.

Issues raised by the commenters include the following:

- Analysis of the alternative (two-phase) repository concept
- Uncertainties associated with the rock mechanics aspect of retrieval
- Maximum design stress resulting from salt creep.

Issue

One commenter stated that the EA is inadequate in the analysis of the alternative (two-phase) repository concept. Specifically, it was noted that the repository design be considered for gassy-mine conditions:

- Increase in the size of the repository, the volume of salt to be handled, and the surface area required for stockpiling mined materials
- Environmental impacts of handling a larger volume of salt
- Increase in hoisting capacity or additional shafts or increase in diameter of proposed shafts
- Increase in repository area may be restricted due to lateral extent of the formation
- Ventilation of repository for gassy conditions requiring more air volume, larger diameter shafts, fireproof machinery, and meeting the requirements of 30 CFR Part 57.
- Geologic anomalies (e.g., brine, gas, oil, water, interbeds, shear zones, faulting, gas outbursts).

Response

The DOE has examined the EA with regard to gassy-mine conditions and the two-phase concept and has provided a new table in Chapter 5 that identifies the key aspects of a two-phase repository, including gassy-mine conditions.

The DOE has modified the EA to include basic design parameters and impacts of the two-phase concept which assume gassy conditions in a comprehensive Table 5-1 at the beginning of Chapter 5 and has provided additional supportive text.

Issue

One commenter states that the EA has not adequately discussed uncertainties associated with the rock mechanics aspect of retrieval. Concern is expressed that retrieval operations could be significantly impacted by adverse conditions created by elevated temperatures, especially in a heterogeneous host rock.

Response

The DOE does not agree that the EA is inadequate in addressing the effects of the response of heterogeneous host rock and variations in heat loading on reexcavation of backfilled waste rooms. Reexcavation will, as noted, be primarily in reconsolidated backfill which will be quite homogeneous. Backfill emplacement will be evaluated during a "proof-of-principle" demonstration period prior to license application. Closure of the host rock after backfilling will be under relatively stable conditions since deformations will be partially resisted by the plastic flow of the recompacting fill. The amount of closure will be approximated by the in-place porosity of the emplaced fill which cannot be determined until proof-of-principle testing of backfilling methods.

The DOE concurs with concerns expressed about room stability during reexcavation and retrieval operations to the extent that additional care must be taken during remining. The extent and degree of room stability problems are presently under study as part of the design process. Methods and materials for room stability will be designed and tested as required as part of the proof-of-principle test program. No revision of the EA is required.

The DOE concurs with the commenter that high temperatures at the CHLW waste package surface 5 years after emplacement coupled with inhomogeneities in the in situ salt of the borehole wall will cause some difficulties in removing, and perhaps in locating, canisters.

It is noted that the EA describes only the simplest scheme for waste emplacement, i.e., a single row of holes in the floor of the storage room, each containing a single, vertically placed canister surrounded by crushed salt. Other emplacement modes include horizontal emplacement of one or more canisters in holes drilled into the pillars between rooms, the use of large holes without salt backfill, and the use of steel or concrete sleeves to line emplacement holes.

Some of these methods, especially those involving the use of heavy sleeves, improve condition for both location and retrieval of waste packages. These emplacement modes are to be evaluated during the pre-licensing retrievability proof-of-principle period.

Chapter 5 of the EA has been revised to include the DOE's current position on the retrievability issue.

Issue

One commenter stated that the salt creep would not only close the airgap between the canister and the salt host rock, but it would also result in exceeding the maximum design stress in the canister within a few years. The commenter suggested that this would severely hinder any attempted retrieval of the canisters.

Response

The DOE agrees that closure of the airgap between the canister and host rock will result in a buildup of stresses on the canister. The waste container is to be designed to resist these radial stresses resulting from thermal expansion and in situ stresses.

The maximum stress will occur within the first year of burial. The waste package will be structurally designed to withstand the maximum stress expected. A gradual decay to lithostatic pressure during the first decade after burial is anticipated.

Since the expected stress can be resisted by the waste package design, maximum design stress will not be exceeded.

The DOE believes that no modification to the EA is required.

C.8.6 CHAPTER C.8 REFERENCES

C.8.6.1 Reference Listed by Author

Bechtel Group, Inc., 1983. Precipitation and Flood Study: Gibson Dome Location, Paradox Basin, Utah, ONWI-476, prepared for Office of Nuclear Waste Isolation, Battelle Memorial Institute, Columbus, OH.

BGI, see Bechtel Group, Inc.

Gureghian, A. B., L. A. Scott, and G. E. Raines, 1983. Performance Assessment of a Shaft Seals System in an HLW Repository in the Gibson Dome Area, ONWI-494, Office of Nuclear Waste Isolation, Battelle Memorial Institute, Columbus, OH.

Senseny, Paul E., 1983. "Task 2: Laboratory Studies," in "Repository Design Analysis," Technical Progress Report for the Quarter 1 October - 31 December, 1982, ONWI-9(83-1), Office of Nuclear Waste Isolation, Battelle Memorial Institute, Columbus, OH, pp. 88-89.

C.8.6.2 Federal Regulations and Statutes

10 CFR Part 960, Nuclear Waste Policy Act of 1982; General Guidelines for the Recommendation of Sites for the Nuclear Waste Repositories; Final Siting Guidelines.

30 CFR Part 57, Safety and Health Standards - Metal and Non-metal Underground Mines, revised July 1, 1984.

C.9 COMMENT-RESPONSE INDEX

In its Federal Register notice of December 20, 1984, announcing the availability of the draft EAs, the DOE requested that interested parties review the documents and send their comments to the DOE in Washington, D.C. for the comment record. In addition, the DOE held a series of public hearings in the six first-repository States and one adjacent State. The written and oral testimony from these hearings was also included in the formal comment record.

Each letter and the testimony of each hearing participant were assigned a number. The letters and testimony were then reviewed to identify comments, and the comments in each letter were numbered sequentially. Copies of the comments and letters can be seen at the DOE reading rooms in Washington, D.C.; Columbus, Ohio; Las Vegas, Nevada; and Richland, Washington. The individual comments were assigned a classification code that corresponds to a subject area in the comment-response document (CRD). In some cases, a comment was addressed in more than one subject area in the CRD, and these comments were assigned more than one classification code.

This index lists all of the comments that apply to the draft EAs for the salt sites (Davis Canyon, Deaf Smith and Richton). By using this index, the commenter can find the section of the CRD that discusses the issues raised in his or her comment letter or testimony at a public hearing. The commenters are listed by State. The index lists the commenters alphabetically by their last name, their organizational affiliation where applicable, the number assigned to the letter or testimony, the comment numbers, the specific EA (the site column lists DC for the Davis Canyon EA, DS for the Deaf Smith EA, and RN for the Richton EA) and the classification number for that comment. If the issues raised by the comment are discussed in more than one section of the CRD, additional classification numbers were assigned and are listed in the second, third, and fourth classification columns. Up to four classifications can be listed for each comment.

Thus, to see how the DOE classified the comments and responded to the issues raised in your comment letter or hearing testimony, look up your name under the listing from your State. Under the comment column number you will find a list of the comments the DOE identified in your letter. In the site column, find the specific CRD where your comments are addressed. In the classification column find the classification number(s) assigned to that comment. The classification numbers refer to the sections of the CRD, and the CRD Table of Contents will show the page numbers for the section that discusses the issues raised by your comments.

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Alabama									
	Graham, Gary	NPCA	00155	00001	DC	C.7.4	--	--	--
			00155	00002	DC	C.7.2	--	--	--
			00155	00003	DC	C.7.2	--	--	--
			00155	00004	DC	C.7.2	--	--	--
			00155	00005A	DC	C.7.2	--	--	--
			00155	00005B	DC	C.7.3	--	--	--
	Leonard, R. Michael		02077	00001	----------	C.3.1.2	--	--	--
			02077	00002	----------	C.3.4.4	--	--	--
			02077	00003	DC	C.7.1.1.5	C.7.2.5	--	--
			02077	00004	DC	C.7.4	--	--	--
			02077	00005	----------	C.3.4.4	--	--	--
Alaska									
	Matz, Mike		00306	00001	----------	C.3.1.2	--	--	--
	Wilkinson, Robert L.		00154	00001	DC	C.7.2	--	--	--
Arkansas									
	Schmidt, John & Adeline		00054	00001	DC	C.7.4	--	--	--
Arizona									
	Campugano, Elizabeth	Friends Southwest Center	00175	00001	DC	C.7.2	--	--	--
			00175	00002	----------	C.3.1.2	--	--	--
	Ciaramitano, Mr. & Mrs. Joseph		00041	00001	DC	C.7.2	--	--	--
			00041	00002	DC	C.7.2	--	--	--
	Connolly, Marjorie		02675	00001	----------	C.3.1.2	--	--	--
			02675	00002	DC	C.7.2.4	C.7.2.5	--	--
			02675	00003	----------	C.3.1.2	--	--	--
	Corkett, David		00227	00001	DC	C.5.1	--	--	--
			00227	00002	DC	C.5.7	--	--	--
			00227	00003	DC	C.7.2	--	--	--
	Coxhead, Richard A.		00409	00001	----------	C.3.4.4	--	--	--
	Dankwort, Rudolf		00413	00001	----------	C.3.4.4	--	--	--
			00413	00002	----------	C.3.4.2.2	--	--	--
			00413	00003	DC	C.7.2	--	--	--
	Dugall, Dr. John C.		00104	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Arizona (continued)									
			00104	00002A	DC	C.7.2	--	--	--
			00104	00002B	DC	C.5.1	--	--	--
			00104	00003	----------	C.3.4.4	--	--	--
	Evans, Arthur H.		00096	00001	----------	C.3.4.4	--	--	--
			00096	00002	DC	C.7.2	--	--	--
	Fathe, Fred C.		00259	00001	DC	C.7.2	--	--	--
			00259	00002	DC	C.7.4.2	--	--	--
			00259	00003	DC	C.7.2	--	--	--
	Findlay, III, Robert S.		00253	00001	----------	C.3.4.4	--	--	--
			00253	00002	DC	C.7.2	--	--	--
	Freitag, Clarence & Iris		00678	00001	DC	C.7.2.4	--	--	--
			00678	00002	DC	C.7.4.2	--	--	--
	Gallagher, Jim and Delphine		00395	00001	DC	C.7.2	--	--	--
	Hill, Richard C.		01347	00001	DC	C.7.1.2	C.7.1.1.2	--	--
			01347	00002	DC	C.7.4	--	--	--
			01347	00003	DC	C.7.4	--	--	--
			01347	00004	DC	C.7.4	C.7.2	--	--
			01347	00005	DC	C.5.1	C.7.2.6	--	--
			01347	00006	----------	C.3.4.4	--	--	--
	Hirsh, Sidney M.		00233	00001	DC	C.7.2	--	--	--
			00233	00002	DC	C.7.4	--	--	--
	Hodous, Dr. Robert	Inscription House Health Center	00435	00001	DC	C.7.2	--	--	--
			00435	00002	DC	C.7.2	--	--	--
	Hubley, F. K.		00050	00001	DC	C.7.2	--	--	--
	Hulmes, Doug	Prescott College	00272	00001	DC	C.7.2.6	--	--	--
			00272	00002	DC	C.4.1.2.1	--	--	--
			00272	00003	DC	C.4.1.1	--	--	--
			00272	00004	DC	C.4.1.4	--	--	--
			00272	00005	DC	C.6.5	--	--	--
	Jefferson, Mark		00280	00001	DC	C.7.2	--	--	--
	Kissock, Kelly	Verde Valley School, Math Dept.	01533	00001	----------	C.3.1.2	--	--	--
			01533	00002	----------	C.3.1.2	--	--	--
			01533	00003	----------	C.3.1.2	--	--	--
	Lawson, Duane		01313	00001	----------	C.3.1.2	--	--	--
			01313	00002	DC	C.7.4	C.7.2.4	--	--
			01313	00003	DC	C.7.3	--	--	--
			01313	00004	----------	C.3.1.2	--	--	--
			01313	00005	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Arizona (continued)									
	Lundquist, Evelyn		01084	00001	----------	C.3.4.4	--	--	--
	Lundstrom, Kristen		00067	00001	----------	C.3.1.2	--	--	--
			00067	00002	DC	C.4.1.2.3	--	--	--
	McCarty, Doug		00223	00001	DS	C.7.4	--	--	--
			00223	00002	DS	C.7.4	--	--	--
			00223	00003A	DS	C.5.1	--	--	--
			00223	00003B	DS	C.6.5	--	--	--
			00223	00004	----------	C.2.4.1	--	--	--
			00223	00005	DS	C.6.4	--	--	--
			00223	00006	----------	C.2.8.1	--	--	--
			00223	00007	----------	C.3.4.3	--	--	--
	McClelland, Brian K		01353	00001	----------	C.3.4.4	--	--	--
			01353	00002	----------	C.3.4.4	--	--	--
			01353	00003	DC	C.7.2.4	C.7.2.5	--	--
			01353	00004	----------	C.2.1.2	--	--	--
	O'Neill, Colleen		00329	00001	DC	C.7.4	--	--	--
			00329	00002	DC	C.7.2	--	--	--
			00329	00003	----------	C.3.1.2	--	--	--
	Pamperin, John F.		00170	00001	DC	C.6.5	--	--	--
	Vicini, Linda M.		00244	00001	----------	C.3.4.4	--	--	--
			00244	00002	DC	C.7.2	--	--	--
	Waldo, Matthew		00546	00001	DC	C.7.3	--	--	--
			00546	00002	DC	C.4.3	--	--	--
			00546	00003	DC	C.4.1.3.5	--	--	--
			00546	00004	DC	C.7.2	--	--	--
	Winter, John T.		00310	00001	----------	C.3.1.2	--	--	--
			00310	00002	DC	C.7.2	--	--	--
			00310	00003	----------	C.3.4.4	--	--	--
California									
	Anonymous		00106	00001	----------	C.3.4.4	--	--	--
	Augenbraun, Bernice		00256	00001	DC	C.7.1.1	C.7.2	--	--
			00256	00002	DC	C.7.4	--	--	--
	Bacher Jr., Mrs. Frederick A.		00101	00001	----------	C.3.1.2	--	--	--
			00101	00002	DC	C.7.1.1.5	C.7.1.1.4	--	--
			00101	00003	DC	C.7.1.1.5	C.7.1.1.4	--	--
			00101	00004	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
California (continued)									
			00101	00005	----------	C.3.4.4	--	--	--
	Ballsun, C.		00075	00001	----------	C.3.4.4	--	--	--
			00075	00002	DC	C.7.2	--	--	--
			00075	00003	DC	C.7.2	--	--	--
	Berke, Eleanor		00351	00001	----------	C.3.4.4	--	--	--
			00351	00002	----------	C.3.1.2	--	--	--
			00351	00003	DC	C.7.2.4	C.7.2.5	--	--
			00351	00004	DC	C.7.2.6	--	--	--
	Bock, A.J.	American Rock Art Research Assc.	01056	00001	----------	C.3.4.4	--	--	--
			01056	00002	DC	C.7.2.6	--	--	--
			01056	00003	DC	C.7.2.6	--	--	--
			01056	00004	DC	C.7.2.4	--	--	--
	Bridenbecker, Robert H.	Southern CA Edison Co.	01351	00001	----------	C.2.3.3	--	--	--
			01351	00002	RN,DC,DS	C.4.1	C.2.7	--	--
			01351	00003	RN,DC,DS	C.4.3	C.4.3	--	--
			01351	00004	RN,DC,DS	C.4.3	C.4.3	--	--
			01351	00005	----------	C.2.8.3	C.4.3	--	--
			01351	00006	----------	C.2.4.1	--	--	--
	Cameron, Lillian S.		00115	00001	----------	C.3.4.4	--	--	--
			00115	00002A	DC	C.7.2	--	--	--
			00115	00002B	DC	C.6.5	--	--	--
			00115	00002C	DC	C.7.3	--	--	--
			00115	00003	DC	C.7.4	--	--	--
			00115	00004	DC	C.7.2	--	--	--
			00115	00005	----------	C.3.4.4	--	--	--
	Campbell, Todd		00267	00001	----------	C.3.4.4	--	--	--
			00267	00002	DC	C.5.1	--	--	--
			00267	00003	DC	C.4.1.3	C.7.2	C.7.4	C.4.1.5
			00267	00004	DC	C.4.1.5	--	--	--
			00267	00005	DC	C.7.2	--	--	--
	Carey, Patrick F.		00294	00001	DC	C.7.2	--	--	--
	Clothier, Julia		02104	00001	DC	C.7.1.2	--	--	--
			02104	00002	DC	C.7.1.1.5	C.7.2.5	C.7.1.1.4	C.7.2.4
			02104	00003	DC	C.7.1.1.5	C.7.2.5	--	--
			02104	00004	DC	C.7.1.1.6	C.7.2.6	--	--
			02104	00005	DC	C.7.3	--	--	--
			02104	00006	DC	C.7.1.1.3	C.7.2.3	--	--
			02104	00007	DC	C.7.1.1.2	C.7.2.2	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
California (continued)									
			02104	00008	DC	C.7.1.1.4	--	--	--
	Durbin, Emily	Sierra Club	01221	00009	----------	C.3.1.2	--	--	--
	Eggleston, Cathy		00491	00001	DC	C.7.2.4	--	--	--
	Fahlen, Dorothy		00389	00001	DC	C.7.2.4	--	--	--
	Foch, Jr., James D.		01396	00001	DC	C.7.1.1.5	C.7.2.5	--	--
			01396	00002	DC	C.7.2.5	C.7.1.1.5	--	--
			01396	00003	DC	C.7.1.1.5	C.7.2.5	--	--
			01396	00004	DC	C.7.1.1.5	C.7.2.5	--	--
			01396	00005	DC	C.7.2.5	--	--	--
			01396	00006	DC	C.7.1.1.5	--	--	--
			01396	00007	DC	C.4.1.3.4	--	--	--
			01396	00008	DC	C.7.1.1.5	--	--	--
			01396	00009	DC	C.7.1.1.5	--	--	--
			01396	00010	DC	C.7.1.1.5	--	--	--
			01396	00011	DC	C.7.1.1.5	--	--	--
			01396	00012	DC	C.7.1.1.5	C.7.2.5	--	--
			01396	00013	DC	C.7.1.1.5	--	--	--
			01396	00014	DC	C.7.2.5	--	--	--
			01396	00015	DC	C.7.3	--	--	--
			01396	00016	DC	C.4.1.5	--	--	--
			01396	00017	DC	C.7.1.1.5	C.7.2.5	--	--
			01396	00018	DC	C.7.1.1.5	C.7.2.5	--	--
			01396	00019	DC	C.4.1.3.4	--	--	--
			01396	00020	DC	C.4.2.3	--	--	--
			01396	00021	DC	C.7.1.1.5	--	--	--
			01396	00022	DC	C.7.1.1.5	--	--	--
			01396	00023	DC	C.7.1.1.5	--	--	--
			01396	00024	DC	C.7.1.1.5	--	--	--
			01396	00025	DC	C.7.1.1.5	--	--	--
			01396	00026	DC	C.7.1.1.5	--	--	--
			01396	00027	DC	C.7.1.1.5	--	--	--
			01396	00028	DC	C.7.2.5	C.7.1.1.5	--	--
			01396	00029	DC	C.7.1.1.5	C.7.2.5	--	--
			01396	00030	DC	C.7.1.1.5	C.7.2.5	--	--
			01396	00031	DC	C.7.2.5	--	--	--
			01396	00032	DC	C.7.2.5	--	--	--
			01396	00033	DC	C.7.2.5	C.7.1.1.5	--	--
	Frey, Jean Ann		00229	00001	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
California (continued)									
	Geisler, Dorothy		00073	00001	----------	C.3.4.4	--	--	--
			00073	00002	DC	C.4.3	--	--	--
			00073	00003	DC	C.4.2.1	--	--	--
			00073	00004	----------	C.3.4.4	--	--	--
			00073	00005	----------	C.2.8.1	--	--	--
	Gill, Cathy M.		01158	00001	DC	C.7.2	--	--	--
	Goodman, Michael		00222	00001	----------	C.3.4.4	--	--	--
			00222	00002	----------	C.2.8.3	--	--	--
	Gross, Caroline		00225	00001	----------	C.2.8.1	--	--	--
			00225	00002	----------	C.3.1.2	--	--	--
			00225	00003	DC	C.3.1.3	--	--	--
	Gunsky, Frederic R.		00068	00001	----------	C.3.3.1	--	--	--
			00068	00002	DC	C.7.2	--	--	--
	Hershenhorn, Joanne		00334	00001	DC	C.7.1.1	--	--	--
			00334	00002	DC	C.7.1.1.4	--	--	--
			00334	00003	DC	C.5.1	--	--	--
	Holladay, Kevin		01060	00001	----------	C.3.1.2	--	--	--
			01060	00002	----------	C.3.4.4	--	--	--
			01060	00003	DC	C.7.4	--	--	--
			01060	00004	DC	C.7.2	--	--	--
			01060	00005	DC	C.7.2.5	--	--	--
	Jett, Dr. Stephen C.	Univ. Cal. Geog. Dept	00016	00001	DC	C.7.2	--	--	--
			00016	00002	----------	C.3.4.4	--	--	--
	Jones-Johnson, Ola Mae		00027	00001	----------	C.3.4.4	--	--	--
	Jones-Smith, Aree		00023	00001	----------	C.3.4.4	--	--	--
	Jones-Smith, Willie Lou		00032	00001	----------	C.3.4.4	--	--	--
	Lundholm, Mrs. A. N.		02108	00001	----------	C.2.5.2	--	--	--
	Martin, Frankie and Bob		00107	00001	----------	C.3.4.4	--	--	--
			00107	00002	DC	C.7.2	--	--	--
	McCreery, Scott		01133	00001	----------	C.3.4.4	--	--	--
	Mitchell, Mrs. Barbara A.		00179	00001	DC	C.7.2	--	--	--
			00179	00002	DC	C.7.2	--	--	--
			00179	00003	DC	C.7.4	--	--	--
			00179	00004	DC	C.7.2	--	--	--
			00179	00005	----------	C.3.1.2	--	--	--
	Moore, Carey		00019	00001	----------	C.3.4.4	--	--	--
	Moore, Willie		00025	00001	----------	C.3.4.4	--	--	--
	Moore, Kelvin		00033	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
California (continued)									
	Moore, Sr., Albert B.		00018	00001	----------	C.3.4.4	--	--	--
	Moore-Loud, Gloria D.		00039	00001	----------	C.3.4.4	--	--	--
	Moore-Parker, Laura		00024	00001	----------	C.3.4.4	--	--	--
	Moore-Robinson, Annie		00026	00001	----------	C.3.4.4	--	--	--
	Olson, Angela L.		00323	00001	DC	C.7.2	--	--	--
			00323	00002	DC	C.7.2	--	--	--
	Oman, Barbara		02704	00001	----------	C.3.1.2	--	--	--
			02704	00002	----------	C.3.4.4	--	--	--
	Parkins, Cheryl		01062	00001	----------	C.3.4.4	--	--	--
	Patterson, Wendy Bents		02610	00001	----------	C.3.1.2	--	--	--
			02610	00003	----------	C.3.1.2	--	--	--
	Poland, Roscoe A.	Conservation Call	00198	00001	DC	C.7.2	--	--	--
			00198	00002	----------	C.3.1.2	--	--	--
	Preyer, Bernard		02700	00001	----------	C.3.4.4	--	--	--
			02700	00002	----------	C.3.1.2	--	--	--
	Ramsey, Rande		01194	00001	DC	C.7.1.1.3	C.7.1.1.4	C.7.1.1.5	--
			01194	00002	DC	C.7.4	C.7.2.4	--	--
			01194	00003	----------	C.3.1.2	--	--	--
			01194	00004	----------	C.7.1	--	--	--
			01194	00005	DC	C.7.4	C.7.2.4	--	--
	Ready, James P.	The James P. Ready Co.	01577	00001	----------	C.3.1.2	--	--	--
	Rittenhouse, Jan		00328	00001	DC	C.7.2	--	--	--
			00328	00002	----------	C.3.1.2	--	--	--
	Rivers, Walter		00361	00001	DC	C.7.2	--	--	--
	Robertson, Marilyn		01579	00001	----------	C.3.4.4	--	--	--
			01579	00002	DC	C.7.2.5	--	--	--
			01579	00003	DC	C.7.2.4	--	--	--
			01579	00004	DC	C.5.1	--	--	--
	Ryall, Marjorie M.		00117	00001	----------	C.3.4.4	--	--	--
			00117	00002	DC	C.7.2	--	--	--
			00117	00003	DC	C.7.2	--	--	--
			00117	00004	DC	C.7.4	--	--	--
			00117	00005	DC	C.7.2	--	--	--
			00117	00006	----------	C.3.4.4	--	--	--
	Saretsky, Richard D.		00279	00001	DC	C.7.2	--	--	--
			00279	00002	----------	C.3.1.2	--	--	--
	Sawyer, Benjamin		02701	00001	----------	C.3.4.4	--	--	--
			02701	00002	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
California (continued)									
			02701	00003	----------	C.2.8.1	--	--	--
	Schuster, Megan H.		00439	00001	DC	C.7.2	--	--	--
			00439	00002	----------	C.3.1.2	--	--	--
	Senn, Dick		00100	00001	DC	C.7.2	--	--	--
	Skews, Geoff		00133	00001	DC	C.7.2	--	--	--
			00133	00002	DC	C.7.2	--	--	--
			00133	00003	DC	C.7.2	--	--	--
			00133	00004	DC	C.7.2	--	--	--
			00133	00005	----------	C.3.1.2	--	--	--
	Spotts, Richard		00184	00001	DC	C.7.2	--	--	--
	Stansfield, Elaine	Ecology Ctr. of So. California	00059	00001	----------	C.3.4.4	--	--	--
			00059	00002	----------	C.2.1.1	--	--	--
			00059	00003A	----------	C.2.7	--	--	--
			00059	00003B	----------	C.3.4.2.1	--	--	--
			00059	00038	----------	C.2.8.1	C.2.8.2	--	--
	Swanson, John R.		00446	00001	----------	C.3.4.4	--	--	--
	Uhlar, Daniel J.		00399	00001	DC	C.7.3	--	--	--
			00399	00002A	DC	C.7.2.5	--	--	--
			00399	00002B	DC	C.7.2.4	--	--	--
			00399	00003	DC	C.7.4	--	--	--
			00399	00004	DC	C.7.2.6	--	--	--
			00399	00005	DC	C.7.4	--	--	--
	Wasson, Glenn E.		00254	00003	----------	C.3.4.4	--	--	--
			00254	00004	----------	C.2.3.1	--	--	--
			00254	00005	----------	C.2.6.1	--	--	--
			00254	00006	----------	C.2.8	--	--	--
			00254	00007	----------	C.2.1	--	--	--
			00254	00008	----------	C.3.4.4	--	--	--
			00254	00011	----------	C.2.8.2	--	--	--
			00254	00012	----------	C.2.8.2	--	--	--
			00254	00013	----------	C.2.8.2	--	--	--
	Weatherwax, Robert K.	Sierra Energy & Risk Assessment	01366	00001	----------	C.3.4	--	--	--
			01366	00002	----------	C.3.4.3	--	--	--
			01366	00003	----------	C.3.4.3	--	--	--
			01366	00004	----------	C.3.4	--	--	--
			01366	00005	----------	C.3.4.3	--	--	--
			01366	00006	----------	C.3.4.2	--	--	--
			01366	00007	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
California (continued)									
			01366	00008	----------	C.3.4.3	--	--	--
			01366	00009	----------	C.3.3	--	--	--
			01366	00010	----------	C.3.4.1	--	--	--
			01366	00011	----------	C.3.4.3	--	--	--
	Webster, Donald B.		00613	00001	----------	C.3.4.4	--	--	--
	Woods, Nancy		00095	00001	DC	C.7.2	--	--	--
	Yasuda, Don		00443	00001	----------	C.3.4.4	--	--	--
			00443	00002A	DC	C.4.1.1	--	--	--
			00443	00002B	DC	C.4.2.3	--	--	--
			00443	00002C	DC	C.3.2	--	--	--
			00443	00003	DC	C.7.2.5	--	--	--
			00443	00004	DC	C.7.2	--	--	--
			00443	00005	DC	C.4.2.3	--	--	--
			00443	00006	DC	C.4.2.3	--	--	--
			00443	00007	DC	C.7.4	--	--	--
	York, Jennifer		00060	00001	----------	C.2.8.1	--	--	--
			00060	00001A	----------	C.3.1.2	--	--	--
			00060	00001B	----------	C.2.7	--	--	--
			00060	00002A	DC	C.7.2	--	--	--
			00060	00002B	DC	C.6.5	--	--	--
Colorado									
	Dowell, Bill, Marcia & Ryan		01546	00001	----------	C.3.1.2	--	--	--
			01546	00002	----------	C.3.1.2	--	--	--
	Adams, Cass		01178	00001	----------	C.3.4.4	--	--	--
			01178	00002	DC	C.7.2	--	--	--
	Adams, Craig		01304	00001	----------	C.3.1.2	--	--	--
			01304	00002	----------	C.2.2	--	--	--
	Anderson, John and Leanna		00527	00001	DC	C.5.1	--	--	--
			00527	00002	DC	C.7.2	--	--	--
			00527	00003	----------	C.3.1.2	--	--	--
	Anderson, Virginia S.		00581	00001	----------	C.3.1.2	--	--	--
			00581	00002	DC	C.3.1.3	--	--	--
			00581	00003	DC	C.7.2.4	--	--	--
			00581	00004	DC	C.7.4	--	--	--
	Anderst, Daryl		00318	00001	----------	C.3.1.2	--	--	--
	Andy, Charles		00562	00001	----------	C.2.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
	Anonymous		01184	00001	----------	C.3.1.2	--	--	--
			01184	00002	DC	C.7.2.4	--	--	--
			01184	00003	DC	C.7.4	--	--	--
	Armstrong, Jack		00680	00001	DC	C.7.2.4	C.7.2.5	--	--
	Auerlah, Catherine E.		00601	00001	----------	C.3.4.4	--	--	--
			00601	00002	DC	C.7.2	--	--	--
	Bailey, L. Reed		00263	00001	DC	C.7.2.5	--	--	--
	Baker, Ellen F.		00641	00001	DC	C.6.5	C.7.2.4	--	--
	Bartley, Ben		00565	00001	----------	C.3.4.4	--	--	--
	Bedwell, Jackie		00636	00001	----------	C.3.4.4	--	--	--
			00636	00002	----------	C.3.4.4	--	--	--
	Below, Joan A.		00594	00001	----------	C.3.1.2	--	--	--
			00594	00002	DC	C.7.4	--	--	--
	Benjamin, Laurie		00350	00001	----------	C.3.4.4	--	--	--
			00350	00002	DC	C.7.4	--	--	--
			00350	00003	DC	C.7.1.2	--	--	--
	Benjamin, Robert P.		00359	00001	DC	C.7.2	--	--	--
	Benjamin, Albert C.		00595	00001	DC	C.7.2	--	--	--
	Bennett, Sandy		01049	00001	----------	C.3.1.2	--	--	--
	Berg, Ken		00331	00001	DC	C.7.2	--	--	--
	Bernard, Joan		00307	00001	----------	C.3.1.2	--	--	--
	Bertram, Diane		00410	00001	----------	C.3.4.4	--	--	--
	Biggers, John		01371	00001	DC	C.7.2.4	--	--	--
			01371	00002	----------	C.3.1.2	--	--	--
	Binkowski, David J.		00634	00001	DC	C.7.1	--	--	--
			00634	00002	----------	C.7.1	--	--	--
	Blair, Marrette		01190	00001	DC	C.7.2.4	C.7.4	--	--
	Bloom, Claudia		00260	00001	DC	C.7.2	--	--	--
			00260	00002	----------	C.3.4.4	--	--	--
	Bly, Karel S.		01141	00001	----------	C.3.1.2	--	--	--
	Bomer, Frances		00559	00001	----------	C.3.1.2	--	--	--
			00559	00002	DC	C.7.3	--	--	--
	Borkovec, Rick		01256	00001	----------	C.3.1.2	--	--	--
			01256	00003	----------	C.3.1.2	--	--	--
	Borowski, Ann		01377	00001	----------	C.2.7	--	--	--
			01377	00002	----------	C.3.1.2	--	--	--
	Borton, Perry		01334	00001	DC	C.7.2	--	--	--
			01334	00002	DC	C.3.1.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
	Boss, Roger		01336	00001	DC	C.7.2	--	--	--
			01336	00002	DC	C.3.1.3	--	--	--
	Boyce, Cheryl		00584	00001	----------	C.3.1.2	--	--	--
	Brainerd, Alice		00346	00001	----------	C.3.4.4	--	--	--
			00346	00002	----------	C.2.8.1	--	--	--
	Breazzano, Debra		00558	00001	----------	C.3.1.2	--	--	--
	Bretter, Anna		00585	00001	DC	C.7.2	--	--	--
			00585	00002	DC	C.7.2.8	--	--	--
			00585	00003	DC	C.7.2.5	--	--	--
			00585	00004	DC	C.7.2	--	--	--
			00585	00005	DC	C.7.4.2	--	--	--
			00585	00006	DC	C.7.4	--	--	--
	Brown, Keri		00596	00001	----------	C.3.1.2	--	--	--
	Bundquist, Todd		00583	00001	DC	C.7.2	--	--	--
	Burns, Larry and Susan		00381	00001	DC	C.7.2.4	--	--	--
	Burpee, Elizabeth		00586	00001	DC	C.7.1.2	--	--	--
			00586	00002	DC	C.7.2	C.7.3	--	--
			00586	00003	----------	C.2.8.1	--	--	--
	Byerly, Alan		00398	00001	DC	C.7.2.4	--	--	--
			00398	00002	DC	C.6.5	--	--	--
			00549	00001	----------	C.3.1.2	--	--	--
	Byerly, Gay Porter		01303	00001	----------	C.3.1.2	--	--	--
			01303	00002	----------	C.3.1.2	--	--	--
			01303	00003	----------	C.3.1.2	--	--	--
	Carney, Jerry & Jennifer S.		00078	00001	----------	C.3.4.4	--	--	--
			00078	00002	DC	C.7.4	--	--	--
			00078	00003A	DC	C.5.1	--	--	--
			00078	00003B	DC	C.5.2	--	--	--
			00078	00004	DC	C.7.2	--	--	--
			00078	00005	DC	C.7.3	--	--	--
			00078	00006	DC	C.7.2	--	--	--
			00078	00007	----------	C.3.1.2	--	--	--
			00078	00008	DC	C.5.1	--	--	--
			00078	00009	----------	C.3.4.4	--	--	--
	Cawthon, Karl		00563	00001	DC	C.3.2	--	--	--
			00563	00002	DC	C.7.1.1	--	--	--
	Clark, Caroline		01349	00001	----------	C.3.1.2	--	--	--
	Cline, Andy		01175	00001	DC	C.7.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
	Coburn, Russell		00657	00001	DC	C.7.2.6	C.7.2.4	--	--
			00657	00002	DC	C.7.4.2	--	--	--
	Coff, Harry E.		01182	00001	DC	C.7.1.2	--	--	--
			01182	00002	DC	C.5.10	--	--	--
			01182	00003	----------	C.2.1.1	--	--	--
	Coffee, Dr. George		00283	00001	DC	C.7.2	--	--	--
	Cole, Sally J.		01138	00001	----------	C.3.1.2	--	--	--
			01138	00002	DC	C.7.4	--	--	--
			01138	00003	----------	C.3.1.2	--	--	--
	Cole, Nancy		02676	00001	DC	C.7.2	--	--	--
			02676	00002	DC	C.7.2.4	--	--	--
	Conrod, William & Cheryl		01290	00001A	DC	C.3.1.3	--	--	--
			01290	00001B	DC	C.7.2	--	--	--
			01290	00002	DC	C.5.1	C.5.11	--	--
	Cook, Jane M.		00607	00001	----------	C.3.4.4	--	--	--
			00607	00002	DC	C.7.2	--	--	--
	Cooper, Sandra H.		00660	00001	DC	C.7.1.1.9	--	--	--
			00660	00002	DC	C.7.1.1.5	--	--	--
			00660	00003	DC	C.7.2.4	--	--	--
			00660	00004	----------	C.3.1.2	--	--	--
	Cowley, Tara		00573	00001	DC	C.7.2	--	--	--
	Cunningham, Hartley, Timothy & Janice		00385	00001	DC	C.7.2.4	--	--	--
			00385	00002	DC	C.7.3	--	--	--
			00385	00003	----------	C.3.4.4	--	--	--
	Dailey, Carolyn J.	Fort Lewis College	00655	00001	----------	C.3.4.4	--	--	--
			00655	00002	DC	C.7.1.1	C.7.2	--	--
			00655	00003	----------	C.3.1.2	--	--	--
			00655	00004	DC	C.5.1	--	--	--
	Denenberg, Diane		00635	00001	DC	C.7.2	C.7.4	--	--
			00635	00002	DC	C.7.2.4	--	--	--
	Dobben, Talie		01046	00001	----------	C.3.1.2	--	--	--
	Dyson, Rick		01064	00001	----------	C.3.1.2	--	--	--
	Eafanti, Donna		01183	00001	DC	C.7.2.4	--	--	--
			01183	00002	DC	C.7.2.3	C.7.2.5	--	--
	Ells, Janis B.		01552	00001	DC	C.7.4	--	--	--
	Engman, Shelley		00572	00001	----------	C.3.1.2	--	--	--
			00572	00002	DC	C.6.1	--	--	--
	Ewert, Daniel,Alex & Krista		01559	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
	Farley, Paul J.		00128	00001	DC	C.7.2	--	--	--
	Farnsworth, Pam		00441	00001	----------	C.3.1.2	--	--	--
			00441	00002	----------	C.3.1.2	--	--	--
			00441	00003A	DC	C.7.2	--	--	--
			00441	00003B	DC	C.7.4	--	--	--
	Fay, Thomas		01223	00001	----------	C.3.1.2	--	--	--
			01223	00002	----------	C.3.1.2	--	--	--
	Fay, Janet M.		02255	00001	----------	C.3.1.2	--	--	--
	Ferst, F.		01185	00001	DC	C.7.2.4	--	--	--
			01185	00002	----------	C.3.1.2	--	--	--
			01185	00003	----------	C.2.3	--	--	--
			01185	00004	----------	C.2.3	--	--	--
	Fitzpatrick,Jr., Joseph W.		01309	00001	----------	C.3.1.2	--	--	--
			01309	00003	----------	C.3.1.2	--	--	--
	Flohr, Ramona P.		00261	00001A	DC	C.7.2.3	--	--	--
			00261	00001B	DC	C.7.1.1.5	--	--	--
			00261	00002	DC	C.4.1.5	--	--	--
			00261	00003	DC	C.7.2	--	--	--
	Fogarty, Steven		00569	00001A	----------	C.3.4.4	--	--	--
			00569	00001B	DC	C.7.4	--	--	--
			00569	00001C	DC	C.7.2.4	--	--	--
			00569	00001D	----------	C.3.4.4	--	--	--
	Fogg, Peter L.		01123	00001	----------	C.3.1.3	--	--	--
			01123	00002	----------	C.2.4.1	--	--	--
			01123	00003	----------	C.7.4.2	--	--	--
			01123	00004	----------	C.3.1.2	--	--	--
			01123	00005	----------	C.7.3	--	--	--
			01123	00006	----------	C.3.1.2	--	--	--
			01123	00007	DC	C.4.1.1.5	--	--	--
			01123	00008	----------	C.3.1.2	--	--	--
			01123	00009	----------	C.3.1.1	--	--	--
			01123	00010	DC	C.7.2	--	--	--
			01123	00011	----------	C.3.4.4	--	--	--
	Fowler, Catherine		00566	00001	----------	C.3.1.2	--	--	--
	Fowler, Jessica		00606	00001	----------	C.3.4.4	--	--	--
			00606	00002	DC	C.7.2	--	--	--
	Fox, Genevieve		00577	00001	----------	C.3.4.4	--	--	--
			00577	00002	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
	Frankel, Miriam		01345	00002	DC	C.7.1.1.4	C.7.2.4	--	--
			01345	00003	DC	C.7.2.5	--	--	--
			01345	00004	----------	C.2.4.1	--	--	--
			01345	00005	DC	C.7.2.6	--	--	--
			01345	00006	DC	C.7.4	--	--	--
	Friedman, Margaret		00615	00001	----------	C.3.4.4	--	--	--
	Friedman, Jonathan		01089	00001	----------	C.3.4.4	--	--	--
			01089	00002	DC	C.7.2.4	--	--	--
			01089	00003	DC	C.5.1	--	--	--
	Gardner, Heather		00588	00001	DC	C.7.2	--	--	--
	Geraghty, Matt		00428	00001	----------	C.3.1.2	--	--	--
	Gibbons, Mary Jo & John		01561	00001	----------	C.3.4.4	--	--	--
	Gobhardt, Larry		01375	00001	DC	C.7.2.4	--	--	--
			01375	00002	----------	C.3.1.2	--	--	--
	Goeman, Mitchell J.		00539	00001	DC	C.3.1.3	--	--	--
	Goodtimes, Art	Telluride Times	02186	00001	----------	C.3.4.4	--	--	--
			02186	00002	DC	C.7.4.2	--	--	--
	Goswick, Jeffrey		00603	00001	----------	C.3.4.4	--	--	--
			00603	00002	----------	C.2.8.2	--	--	--
	Gray, Douglas E.		01179	00001	----------	C.3.1.2	--	--	--
			01179	00002	DC	C.7.1.2	C.7.2.4	--	--
	Grayson, Marie		00085	00001	----------	C.3.1.2	--	--	--
			00085	00002	----------	C.3.1.2	--	--	--
			00085	00003	DC	C.7.1.1	--	--	--
			00085	00004	DC	C.7.1.1	--	--	--
	Green, Douglas J.		00654	00001	----------	C.2.8.2	--	--	--
			00654	00002	----------	C.3.4.4	--	--	--
	Gregory, Lee		00215	00001	----------	C.3.4.4	--	--	--
	Griffiths, Dana		00591	00001	DC	C.7.2	--	--	--
	Gronwall, Raymond J.		00348	00001	----------	C.3.1.2	--	--	--
			00348	00002	DC	C.7.2	C.3.2	C.3.1.3	--
			00348	00003	DC	C.7.2.5	--	--	--
			00348	00004	DC	C.7.2.3	--	--	--
			00348	00005	----------	C.2.4.1	--	--	--
			00348	00006	----------	C.2.4.1	--	--	--
	Groth, Mark and Kathy		00414	00001	DC	C.7.2	--	--	--
			00414	00002	----------	C.3.1.2	--	--	--
	Groves, Anthony		01176	00001	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
			01176	00002	DC	C.7.4	--	--	--
			01176	00003	----------	C.3.1.2	--	--	--
	Gruer, Mary K.		01177	00001	----------	C.3.4.4	--	--	--
	Gudavski, LeCindra		00545	00001	----------	C.3.1.2	--	--	--
	Hackl, Diane		00602	00001	----------	C.3.4.4	--	--	--
	Hamilton, Penny		00321	00001	DC	C.7.2	--	--	--
	Hands, Kathy		00478	00001	DC	C.7.2	--	--	--
	Hannegan,Jr., David W.		01159	00001	DC	C.5.1	--	--	--
			01159	00002	DC	C.5.6	--	--	--
			01159	00003	DC	C.5.11	--	--	--
			01159	00004	DC	C.7.2.4	--	--	--
			01159	00005	----------	C.2.8.2	--	--	--
			01159	00006	----------	C.2.8.1	--	--	--
	Hart, Robert L. & Linda P.		00289	00001	----------	C.3.1.2	--	--	--
	Hartman, Julie		00241	00001	DC	C.7.2	--	--	--
	Hassan, Peter C.		00637	00001	DC	C.7.1	--	--	--
			00637	00002	----------	C.3.4.4	--	--	--
	Hauser, Dena		00580	00001	DC	C.7.1.1	--	--	--
	Hautzinger, Andrew B.		01095	00001	DC	C.7.2	--	--	--
	Hazen, David		01181	00001	DC	C.7.1	--	--	--
			01181	00002	DC	C.7.4	--	--	--
	Heitzer, Mark		01330	00001	DC	C.7.2	--	--	--
			01330	00002	DC	C.3.1.3	--	--	--
	Hempel, Paul		01189	00001	----------	C.3.1.2	--	--	--
	Hinchman, John S.	Bent, St Vrain Partners Inc.	01310	00001	----------	C.3.1.2	--	--	--
			01310	00002	----------	C.3.1.2	--	--	--
			01310	00003	----------	C.3.1.2	--	--	--
	Hines, LeAnne		00444	00001	----------	C.3.4.4	--	--	--
	Huber, Katherine		01144	00001	DC	C.7.2	--	--	--
	Humphrey, Peter		02075	00001	DC	C.7.1.1.5	C.7.2.5	--	--
			02075	00002	DC	C.7.1.1.3	C.7.2.3	--	--
			02075	00003	DC	C.7.1.1.4	C.7.2.4	--	--
			02075	00004	DC	C.7.1.1.4	C.7.2.4	--	--
			02075	00005	----------	C.3.4.4	--	--	--
	Hutchinson, Ian		00570	00001A	DC	C.7.2	--	--	--
			00570	00001B	DC	C.5.10	--	--	--
	Jackson, Cathy		01332	00001	DC	C.7.2	--	--	--
			01332	00002	DC	C.3.1.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
	Jernigan, Richard		01257	00001	----------	C.3.1.2	--	--	--
			01257	00003	----------	C.3.1.2	--	--	--
	Johnson, Nina		00371	00001	----------	C.3.1.2	--	--	--
	Johnson, Misti		01255	00001	----------	C.3.1.2	--	--	--
			01255	00003	----------	C.3.1.2	--	--	--
	Jones, Charles A.	Allied Bendix Aerospace	02660	00001	----------	C.2.7	--	--	--
	Kaempfer, Suzanne H.		00013	00001	----------	C.3.1.2	--	--	--
			00013	00002	DC	C.7.2	--	--	--
			00013	00003	DC	C.7.2	--	--	--
			00013	00004	----------	C.3.4.4	--	--	--
	Kapushion, Nettie		01376	00001	DC	C.7.2.4	--	--	--
			01376	00002	----------	C.3.1.2	--	--	--
	Keiser, Elizabeth		00293	00001	DC	C.7.2	--	--	--
	Kelly, Allen L.		02078	00002	----------	C.3.4.4	--	--	--
	Kiklevich, Roark, Eric & Abby		01548	00001	----------	C.3.1.2	--	--	--
			01548	00002	----------	C.3.1.2	--	--	--
	Kinnear, Sharyl A.		01137	00001	----------	C.2.2.1	--	--	--
			01137	00002	DC	C.7.4	--	--	--
			01137	00003	DC	C.7.2.3	--	--	--
			01137	00004	DC	C.4.1.3.4	C.7.2.5	--	--
			01137	00005	----------	C.2.4.1	--	--	--
			01137	00006	DC	C.7.2.6	--	--	--
	Kirk, Allison		01059	00001	----------	C.3.4.4	--	--	--
			01059	00002	DC	C.7.1.1.4	--	--	--
			01059	00003	----------	C.3.4.4	--	--	--
			01059	00004	----------	C.2.4.1	--	--	--
	Kornreich, Scott K.		01225	00001	DC	C.7.2	--	--	--
			01225	00002	----------	C.3.1.2	--	--	--
	Kovanic, Ronald		01374	00001	DC	C.7.2.4	--	--	--
			01374	00002	----------	C.3.1.2	--	--	--
	Kurtz, Frederick W.		01254	00001	----------	C.3.1.2	--	--	--
			01254	00003	----------	C.3.1.2	--	--	--
	Kurtz, Robyn		01378	00001	DC	C.7.2.4	--	--	--
			01378	00002	----------	C.3.1.2	--	--	--
	Lamm, Governor Richard	State of Colorado	01398	00001	----------	C.2.4.1	--	--	--
			01398	00002	----------	C.2.4.1	--	--	--
			01398	00003	----------	C.2.4.1	--	--	--
			01398	00004	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
			01398	00005	----------	C.2.4.1	--	--	--
			01398	00006	----------	C.2.4.1	C.7.3	--	--
			01398	00007	----------	C.3.4.2.2	--	--	--
			01398	00008	----------	C.2.4.1	--	--	--
			01398	00009	----------	C.2.4.1	--	--	--
			01398	00010	----------	C.2.4.1	--	--	--
	Landing, Sharon A.		00415	00001	----------	C.3.4.4	--	--	--
	Larsen, Suzanne		01204	00001	----------	C.3.1.2	--	--	--
			01204	00002	DC	C.7.4	C.7.2	--	--
			01204	00003	----------	C.3.1.2	--	--	--
	Lauer, Gregg		00633	00001	DC	C.7.2.4	--	--	--
			00633	00002	DC	C.7.2.3	C.7.2.5	--	--
	Lehman, Dale E.	Fort Lewis College	00118	00001	----------	C.2.1.1	--	--	--
			00118	00002A	----------	C.3.4.3	--	--	--
			00118	00002B	----------	C.2.1.1	--	--	--
			00118	00002C	----------	C.2.1.1	--	--	--
			00118	00003	DC	C.7.2.3	--	--	--
			00118	00004	----------	C.3.4.4	--	--	--
			00118	00005	DC	C.7.2.3	--	--	--
			00118	00006	----------	C.3.4.2.2	--	--	--
			00118	00007	----------	C.3.4.2.2	--	--	--
	Lehmann, Scott K.	Univ. of Colorado, Boulder	00503	00001	----------	C.3.1.2	--	--	--
			00503	00002	DC	C.3.2	--	--	--
			00503	00003	DC	C.7.2	--	--	--
			00503	00004	DC	C.7.4	--	--	--
			00503	00005	----------	C.3.1.2	--	--	--
			00503	00006	----------	C.3.4.4	--	--	--
	Lindheimer, Philippe		00582	00001	DC	C.3.1.3	--	--	--
			00582	00002	DC	C.7.2	--	--	--
	Lucas, David		00405	00001	----------	C.3.4.4	--	--	--
			00405	00002	DC	C.7.2	--	--	--
			00405	00003	----------	C.3.1.2	--	--	--
	Lucas, Emil J. & Dorothy		00623	00001	DC	C.7.1.1.3	C.7.2.3	--	--
			00623	00002	DC	C.7.1.1.5	C.7.2.5	--	--
			00623	00003	DC	C.7.4.2	--	--	--
			00623	00004	DC	C.7.2.4	--	--	--
			00623	00005	DC	C.7.2.6	--	--	--
	Lucas, Ken		02227	00001	DC	C.7.1.1.5	C.7.2.5	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
			02227	00002	DC	C.7.2.4	--	--	--
			02227	00003	DC	C.7.3	--	--	--
			02227	00004	DC	C.7.2.6	--	--	--
			02227	00005	DC	C.7.2.4	--	--	--
			02227	00006	DC	C.7.1.1	C.7.2	--	--
	M., D.		00639	00001	----------	C.2.8.1	--	--	--
	Magyar, John and Mike		02661	00001	----------	C.3.4.4	--	--	--
			02661	00002	DC	C.3.1.3	--	--	--
			02661	00003	DC	C.5.1	--	--	--
			02661	00004	DC	C.7.1.1.4	C.7.1.1.5	C.7.2.4	C.7.2.5
			02661	00005	DC	C.7.1.1.4	--	--	--
			02661	00006	DC	C.7.2.2	C.7.1.1.2	--	--
			02661	00007	----------	C.3.1.2	--	--	--
	Major, Robert J.		00599	00001	DC	C.7.2	--	--	--
	Margolis, Barbara E.		00082	00001	----------	C.3.4.4	--	--	--
			00082	00002	DC	C.7.2	--	--	--
	Marsh, Tobin		00571	00001	DC	C.7.2	--	--	--
			00571	00002	----------	C.3.1.2	--	--	--
	Marshall, Katherine J.		00548	00001	----------	C.3.1.2	--	--	--
	Martin, James B.	Environmental Defense Fund	01259	00001	----------	C.2.1.1	--	--	--
			01259	00002	----------	C.2.4.1	--	--	--
			01259	00003	----------	C.2.4.1	--	--	--
			01259	00004	----------	C.2.4.1	--	--	--
			01259	00005	----------	C.3.1.2	--	--	--
			01259	00006	----------	C.3.1.2	--	--	--
			01259	00007	----------	C.2.4.1	--	--	--
			01259	00008	----------	C.2.4.1	--	--	--
			01259	00009	----------	C.2.4.1	--	--	--
			01259	00010	----------	C.5.7	--	--	--
			01259	00011	----------	C.2.4.1	--	--	--
			01259	00012	----------	C.2.4.1	--	--	--
			01259	00013	----------	C.2.4.1	--	--	--
			01259	00014	----------	C.2.4.1	--	--	--
			01259	00015	----------	C.2.4.1	--	--	--
			01259	00016	----------	C.2.4.1	--	--	--
			01259	00017	----------	C.2.4.1	--	--	--
			01259	00018	----------	C.2.4.1	--	--	--
			01259	00019	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
			01259	00020	----------	C.2.4.1	--	--	--
			01259	00021	----------	C.2.4.1	--	--	--
			01259	00022	----------	C.2.4.1	--	--	--
	Mattina, Carol		01047	00001	----------	C.3.1.2	--	--	--
	Mattox, John		00587	00001	DC	C.7.2	--	--	--
	Mattox, Paul		00638	00001	----------	C.3.1.2	--	--	--
			00638	00002	DC	C.7.2.4	--	--	--
	May, Jeffrey		00311	00001	----------	C.3.4.4	--	--	--
			00311	00002	DC	C.7.2	--	--	--
			00311	00003	----------	C.3.4	--	--	--
	Maynard, Andrea G.		00153	00001	----------	C.3.1.2	--	--	--
	McCool, Susan Garrison		02180	00001	DC	C.7.1.1.5	--	--	--
			02180	00002	DC	C.7.2.5	--	--	--
			02180	00003	DC	C.7.2	--	--	--
	McCool, Lewis		02182	00001	----------	C.3.4.4	--	--	--
			02182	00002	DC	C.7.2	--	--	--
			02182	00003	DC	C.7.1.1	--	--	--
			02182	00004	DC	C.7.1.1.6	--	--	--
			02182	00005	DC	C.7.2	--	--	--
			02182	00006	DC	C.7.2	--	--	--
			02182	00007	DC	C.7.2	--	--	--
			02182	00008	DC	C.7.4	--	--	--
			02182	00009	DC	C.7.4	--	--	--
			02182	00010	DC	C.7.2.6	--	--	--
			02182	00011	DC	C.7.2.6	--	--	--
			02182	00012	DC	C.7.4.2	--	--	--
	McFarland, Kristy		01287	00001	----------	C.3.4.4	--	--	--
	McNabb, Donald		01145	00001	----------	C.3.4.4	--	--	--
	Mcllellan, Rosalind		01331	00001	DC	C.7.2	--	--	--
			01331	00002	DC	C.3.1.3	--	--	--
	Mears, Mike and Marilyn		00472	00001	DC	C.3.1.3	--	--	--
	Mears, Mike		01547	00001	----------	C.3.1.2	--	--	--
			01547	00002	----------	C.3.1.2	--	--	--
	Menefie, Christine		00590	00001	DC	C.7.2	--	--	--
	Miller, Annaliese		00593	00001	DC	C.7.2	--	--	--
	Miller, Kathy		01063	00001	----------	C.3.1.2	--	--	--
	Monash, Jessica		02611	00001	----------	C.3.1.2	--	--	--
			02611	00003	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
			02611	00019	----------	C.3.4	--	--	--
	Montfredo, Steven		01373	00001	DC	C.7.2.4	--	--	--
			01373	00002	----------	C.3.1.2	--	--	--
	Morehouse, Don		01312	00001	----------	C.3.1.2	--	--	--
			01312	00002	----------	C.3.1.2	--	--	--
	Muhlbeim, Robert John		00319	00001	----------	C.3.1.2	--	--	--
			00319	00002	----------	C.3.1.2	--	--	--
	Muller, Fred R.		01180	00001	----------	C.3.4.4	--	--	--
			01180	00002	DC	C.7.2.4	C.7.2.3	C.7.3	--
	Mullhauser, Amy		00658	00001	----------	C.3.4.4	--	--	--
			00658	00002	DC	C.7.2.4	C.6.5	--	--
	Nabil, David		01572	00001	----------	C.3.1.2	--	--	--
			01572	00002	----------	C.3.1.2	--	--	--
	Nailling, Elizabeth		02257	00001	----------	C.3.4.4	--	--	--
			02257	00002	DC	C.7.2.2	C.7.4.4	--	--
			02257	00003	DC	C.5.10	--	--	--
			02257	00004	DC	C.4.3	--	--	--
			02257	00005	DC	C.5.1	--	--	--
	Najaft, Melinda		00561	00001	----------	C.3.1.2	--	--	--
	Nall, Chris		00354	00001	----------	C.3.4.4	--	--	--
			00354	00002	----------	C.3.1.2	--	--	--
			00354	00003	DC	C.7.1.1.5	C.7.2.5	--	--
	Nichell, David		00568	00001	----------	C.3.1.2	--	--	--
	Nowlin, Dawn		01329	00001	DC	C.7.2	--	--	--
			01329	00002	DC	C.3.1.3	--	--	--
	Oberling, Bill		01562	00001	----------	C.3.4.4	--	--	--
	Olson, Florence J.		00337	00001	DC	C.7.2	--	--	--
			00337	00002	DC	C.7.2	--	--	--
			00337	00003	DC	C.7.3	--	--	--
			00337	00004	DC	C.7.2	--	--	--
	Pach, David		01372	00001	DC	C.7.2.4	--	--	--
	Palmer, Alice G. & Mark F.		01318	00001	----------	C.3.1.2	--	--	--
			01318	00002	DC	C.7.1.1.2	C.7.1	--	--
			01318	00003	----------	3.1	--	--	--
	Papp, Lawrence A.		00557	00001	DC	C.7.2	--	--	--
			00557	00002	DC	C.7.2	--	--	--
			00557	00003	DC	C.7.2	--	--	--
			00557	00004	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
			00557	00005	----------	C.3.1.2	--	--	--
	Pearson, Mark D.		01337	00001	DC	C.7.4	--	--	--
			01337	00002	----------	C.2.4.1	--	--	--
			01337	00003	DC	C.7.2.4	C.7.1.1.4	--	--
			01337	00004	DC	C.7.2.4	--	--	--
			01337	00005	DC	C.7.2.5	--	--	--
			01337	00006	----------	C.3.1.2	--	--	--
			01337	00007	----------	C.3.1.2	--	--	--
	Peck, Claudia		00525	00001	DC	C.3.1.3	--	--	--
	Pehowski, Paula		00412	00001	----------	C.3.4.4	--	--	--
	Peineiaro, John		01191	00001	----------	C.3.4.4	--	--	--
	Pena, Mayor Frederico	City and County of Denver	02115	00001	----------	C.2.4.1	--	--	--
			02115	00002	----------	C.2.4.1	--	--	--
			02115	00003	----------	C.2.4.1	--	--	--
			02115	00004	----------	C.2.4.1	--	--	--
			02115	00005	----------	C.2.4.1	--	--	--
	Petersen, Paul		01201	00001	----------	C.3.4.4	--	--	--
			01201	00002	----------	C.3.1.2	--	--	--
			01201	00003	----------	C.2.4.1	--	--	--
	Petition		01088	00001	DC	C.7.2	--	--	--
	Petition		01187	00001	DC	C.7.1.1	C.7.2	C.7.4	--
	Pettit, Stephen		00564	00001	DC	C.7.2	--	--	--
	Pettit, S.		00598	00001	----------	C.3.1.2	--	--	--
	Phillips, Sue		00604	00001	----------	C.3.4.4	--	--	--
			00604	00002	DC	C.7.2	--	--	--
	Phillips, Jeff		01188	00001	----------	C.3.1.2	--	--	--
	Pond, Timothy C.		00578	00001A	----------	C.3.1.2	--	--	--
			00578	00001B	DC	C.3.1.3	--	--	--
	Redgenty, Robert D.		00600	00001	DC	C.7.2	--	--	--
	Richardson, Susan		00597	00001	DC	C.7.2	--	--	--
	Robnett, Douglas B.		02071	00001	----------	C.3.4.4	--	--	--
	Rogath, Vincent A.		00537	00001	DC	C.3.1.3	--	--	--
	Rolphe, Timothy M.		01560	00001	----------	C.3.4.4	--	--	--
	Roof, Steven R.		00236	00001	DC	C.7.2.5	--	--	--
			00236	00002	DC	C.7.2	--	--	--
			00236	00003	----------	C.3.1.2	--	--	--
	Rose, Dr. Brian		00369	00001	DC	C.3.1.3	--	--	--
	Ruckel, H. Anthony	Sierra Club Legal Defense Fund	01358	00001	DC	C.5.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
			01358	00002	DC	C.5.1	--	--	--
			01358	00003	DC	C.5.1	--	--	--
			01358	00004	DC	C.5.1	--	--	--
			01358	00005	DC	C.5.1	--	--	--
			01358	00006	DC	C.5.1	--	--	--
			01358	00007	DC	C.5.2	--	--	--
			01358	00008	DC	C.5.4	--	--	--
			01358	00009	DC	C.5.5	--	--	--
			01358	00010	DC	C.5.6	--	--	--
			01358	00011	DC	C.5.6	--	--	--
			01358	00012	DC	C.5.7	--	--	--
			01358	00013	DC	C.5.8	--	--	--
			01358	00014	DC	C.4.1.2.2	--	--	--
			01358	00015	DC	C.4.1.2.2	--	--	--
			01358	00016	DC	C.4.1.2.2	--	--	--
			01358	00017	DC	C.4.1.2.2	--	--	--
			01358	00018	DC	C.3.2	--	--	--
			01358	00019	----------	C.3.1.2	--	--	--
			01358	00020	DC	C.5.10	C.3.1.3	--	--
			01358	00021	DC	C.3.1.3	--	--	--
			01358	00022	DC	C.4.1.1	--	--	--
			01358	00023	DC	C.3.3.2	--	--	--
	Salek, P.		01051	00001	----------	C.3.1.2	--	--	--
	Salk, Joy L.		00560	00001	----------	C.3.1.2	--	--	--
	Saunders, C.		00384	00001	DC	C.7.2.4	--	--	--
	Savoy, Lauret	Dept. Geological Sciences	00528	00001	DC	C.7.4	--	--	--
			00528	00002	DC	C.7.2	--	--	--
			00528	00003	DC	C.7.2	--	--	--
	Scott, Steven K.		00304	00001	DC	C.7.2	--	--	--
	Shaw, Karyl L.		00605	00001	----------	C.3.4.4	--	--	--
			00605	00002	DC	C.7.2	--	--	--
			00605	00003	----------	C.3.1.2	--	--	--
	Shineovich, Jan		00400	00001	DC	C.7.2.4	--	--	--
	Shinn, Joyce A.		01300	00001	----------	C.3.4.4	--	--	--
			01300	00002	----------	C.3.4.4	--	--	--
			01300	00003	----------	C.3.4.4	--	--	--
			01300	00004	----------	C.3.4.4	--	--	--
	Slater, Mark		00406	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
			00406	00002	DC	C.7.2	--	--	--
			00406	00003	----------	C.3.1.2	--	--	--
	Snyder, Harold and Roberta		00490	00001	DC	C.7.2.4	--	--	--
			00490	00002	DC	C.7.2.8	--	--	--
			00490	00003	DC	C.7.2.5	--	--	--
	Somrak, Mary Jo & Michael		01379	00001	DC	C.7.2.4	--	--	--
			01379	00002	----------	C.3.1.2	--	--	--
	Spence, Robin E.		01564	00001	----------	C.3.4.4	--	--	--
	Spezia, John W.		00012	00001	----------	C.3.4.4	--	--	--
			00012	00002	----------	C.3.1.2	--	--	--
			00012	00003	DC	C.3.1.3	--	--	--
			00012	00004	DC	C.7.2	--	--	--
			00012	00005	DC	C.4.3	--	--	--
			00012	00006	DC	C.7.4	--	--	--
	Spivak, Paul		00579	00001	DC	C.7.2	--	--	--
			00579	00002	----------	C.3.1.2	--	--	--
	Stansberry, Donna		01192	00001	----------	C.3.1.2	--	--	--
	Stevenson, Angeline G.		00589	00001	DC	C.7.2	--	--	--
			00589	00002	DC	C.7.2	--	--	--
	Stewart, Carrie		00592	00001	DC	C.7.3	--	--	--
			00592	00002	DC	C.7.2	--	--	--
			00592	00003	DC	C.7.2	--	--	--
	Stokes, Wendy L.		00284	00001	DC	C.7.2	--	--	--
			00284	00002	----------	C.2.8.1	--	--	--
	Street, Marianna		01050	00001	----------	C.3.1.2	--	--	--
	Strunk, Michael B.		00534	00001	DC	C.7.3	--	--	--
			00534	00002	DC	C.5.1	--	--	--
			00534	00003	DC	C.7.3	--	--	--
			00534	00004	DC	C.7.2	--	--	--
			00534	00005	DC	C.7.2	--	--	--
	Sucherman, Kathy		00147	00001	----------	C.3.4.4	--	--	--
	Sutton, Carolyn		00575	00001	DC	C.7.2	--	--	--
			00575	00002	DC	C.7.1.1	--	--	--
			00575	00003	DC	C.7.1.1	--	--	--
	Sweeney, Chris		01045	00001	----------	C.3.1.2	--	--	--
	Tausehn, Guy		00576	00001	----------	C.3.4.4	--	--	--
			00576	00002	----------	C.3.4.4	--	--	--
	Taylor, Larry M.	Interior Graphic Design	02105	00001	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
			02105	00002	DC	C.7.1.1.5	C.7.2.5	--	--
			02105	00003	DC	C.7.2.5	--	--	--
			02105	00004	DC	C.7.1.1.5	C.7.2.5	--	--
			02105	00005	DC	C.7.1.1.4	C.7.2.4	--	--
			02105	00006	DC	C.7.1.1.6	C.7.2.6	--	--
			02105	00007	DC	C.7.1.1.6	C.7.2.6	--	--
			02105	00008	DC	C.7.1.1.8	C.7.2.8	--	--
			02105	00009	DC	C.4.3	--	--	--
			02105	00010	DC	C.7.1.1.4	C.7.2.4	--	--
			02105	00011	DC	C.3.1.3	--	--	--
			02105	00012	DC	C.7.1.1.4	C.7.2.4	--	--
			02105	00013	DC	C.4.3	--	--	--
			02105	00014	DC	C.7.1.1.4	C.7.2.4	--	--
			02105	00015	DC	C.5.11	--	--	--
			02105	00016	DC	C.5.10	C.5.8	--	--
			02105	00017	DC	C.7.1.1.4	C.7.2.4	--	--
	Thomas, Timothy J.		00567	00001	DC	C.7.2	--	--	--
	Thomas, Jan		01277	00001	----------	C.3.4.4	--	--	--
	Tuchyna, DeeAnn R.		00661	00001	----------	C.3.1.2	--	--	--
			00661	00002	DC	C.7.2	--	--	--
	Tyzzer, Andrew		01563	00001	----------	C.3.4.4	--	--	--
	Vanderbeek, Gerard J.		00352	00001	----------	C.3.4.4	--	--	--
			00352	00002	DC	C.7.2.4	--	--	--
			00352	00003	DC	C.7.2.5	--	--	--
			00352	00004	----------	C.2.4.1	--	--	--
	Vick, Ronald E.		00609	00001	----------	C.3.4.4	--	--	--
			00609	00003	----------	C.3.4.4	--	--	--
	Vogler, Harry W.		00420	00001	----------	C.3.4.4	--	--	--
			00420	00002	DC	C.7.4	--	--	--
		Central Motive Power, Inc.	00498	00001	DC	C.7.2.4	--	--	--
	Vosley, M.		01048	00001	----------	C.3.1.2	--	--	--
	Wackewitz, Frances A.		00282	00001	----------	C.3.4.4	--	--	--
			00282	00002	DC	C.7.2	--	--	--
	Walker, Robin		00640	00001	----------	C.3.1.2	--	--	--
			00640	00002	DC	C.7.2	--	--	--
	Walker, Jeannette		01220	00001	----------	C.3.1.2	--	--	--
			01220	00002	----------	C.2.2	--	--	--
	Weiner, Kathleen		01087	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Colorado (continued)									
			01087	00002	DC	C.7.1	--	--	--
	Welch, Thomas E.		01258	00001	----------	C.3.1.2	--	--	--
			01258	00003	----------	C.3.1.2	--	--	--
	West, David		00630	00001	----------	C.3.1.2	--	--	--
	Wiederrich, Chrystiane		00526	00001	DC	C.7.2	--	--	--
	Wiggans, Tamara		02181	00001	DC	C.7.4	--	--	--
			02181	00002	DC	C.7.2	--	--	--
			02181	00003	----------	C.2.4.1	--	--	--
			02181	00004	----------	C.2.3.2	--	--	--
			02181	00005	DC	C.7.4	--	--	--
	Will, Dale		00458	00001	----------	C.3.4.4	--	--	--
			00458	00002	DC	C.7.2	--	--	--
			00458	00003	----------	C.2.8.2	--	--	--
	Williams, David R.		00538	00001	DC	C.3.1.3	--	--	--
	Worthington, Michael		01105	00001	----------	C.3.4.4	--	--	--
			01105	00002	----------	C.3.4.4	--	--	--
	Wurtz, Tom		02116	00001	----------	C.3.1.2	--	--	--
	Yanz, John & Bonnie		01308	00001	----------	C.3.1.2	--	--	--
			01308	00003	----------	C.3.1.2	--	--	--
	Zinn, Sonya		01106	00001	----------	C.3.1.2	--	--	--
			01106	00002	DC	C.7.2.5	--	--	--
			01106	00003	----------	C.3.1.2	--	--	--
	Zinn, Lennard		01174	00001	----------	C.3.1.2	--	--	--
			01174	00002	DC	C.7.4	C.7.2.4	--	--
Connecticut									
	Campbell, David		00087	00001	DC	C.7.2	--	--	--
	Ceraso/Huang, Jane/William	Yale Env. Litigation Program	00523	00001	----------	C.3.1.2	--	--	--
			00523	00006	----------	C.2.2	--	--	--
			00523	00009	DS	C.7.4	--	--	--
			00523	00010	DS	C.4.1.1.8	--	--	--
			00523	00011	DS	C.3.1.3	--	--	--
			00523	00012	----------	C.2.7	--	--	--
			00523	00013	DS	C.7.4	--	--	--
			00523	00017	----------	C.2.7	--	--	--
			00523	00018	----------	C.2.1.1	--	--	--
	Girdler, Barbara K.		00051	00001	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Connecticut (continued)									
	Hughes, Mrs. John Farrel		00069	00001	----------	C.3.4.4	--	--	--
	Shesler, Alysia		00220	00001	----------	C.3.4.4	--	--	--
			00220	00002	----------	C.2.3.2	--	--	--
			00220	00003	DC	C.7.2	--	--	--
			00220	00004	DC	C.7.2	--	--	--
			00220	00008	DC	C.4.1.2.2	C.5.1	--	--
Washington, D.C.									
		U.S. Nuclear Reg. Commission	02679	00024	DC	C.5.7	C.8.4	--	--
			02679	00025	DC	C.5.7	C.8.4	--	--
			02679	00026	DC	C.5.7	C.8.4	--	--
			02679	00027	DC	C.5.7	C.8.4	--	--
			02679	00028	DC	C.5.6	--	--	--
			02679	00029	DC	C.5.2	C.5.3	--	--
			02679	00030	DC	C.5.3	C.8.2	--	--
			02679	00031	DC	C.5.7	--	--	--
			02679	00032	DC	C.5.8	--	--	--
			02679	00033	DC	C.6.6	--	--	--
			02679	00034	DC	C.4.1.1.2	--	--	--
			02679	00035	DC	C.4.1.1.3	--	--	--
			02679	00036	DC	C.4.1.1.7	C.4.1.1.8	--	--
			02679	00037	RN	C.5.1	C.5.3	C.8.2	C.5.6
			02679	00038	RN	C.5.6	--	--	--
			02679	00039	RN	C.5.6	--	--	--
			02679	00040	RN	C.5.7	--	--	--
			02679	00041	RN	C.5.6	--	--	--
			02679	00042	DC	C.3.1.3	--	--	--
			02679	00046	RN	C.5.8	--	--	--
			02679	00058	----------	C.3.4.3	--	--	--
			02679	00089	----------	C.2.1.1	--	--	--
	Bedker, Ervin	Department of the Air Force	01074	00005	----------	C.2.4.1	C.6.4	--	--
	Bentsen, Senator Lloyd	U.S. Senate Comm on Environment	01399	00001	----------	C.2.7	--	--	--
			01399	00002	DS	C.4.1	--	--	--
			01399	00003	----------	C.2.7	--	--	--
			01399	00004	DS	C.5.1	--	--	--
			01399	00005	DS	C.7.4.2	--	--	--
			01399	00006	----------	C.2.3.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01399	00007	DS	C.4.1.2.2	--	--	--
			01399	00008	----------	C.2.1.1	--	--	--
			01399	00009	----------	C.2.7	--	--	--
			01399	00010	----------	C.2.7	--	--	--
			01399	00011	----------	C.3.1.1	--	--	--
			01399	00012	DS	C.4.1	--	--	--
			01399	00013	DS	C.4.1.5	--	--	--
			01399	00014A	DS	C.4.1.5.2	--	--	--
			01399	00014B	DS	C.7.4.3	--	--	--
			01399	00014C	DS	C.7.4.2	--	--	--
			01399	00015	DS	C.7.4	--	--	--
			01399	00016	DS	C.4.1.3.1	--	--	--
			01399	00017	DS	C.7.1.1.3	--	--	--
			01399	00018	----------	C.3.1.2	--	--	--
			01399	00019	DS	C.7.4	--	--	--
			01399	00020	DS	C.7.4	C.7.1.2	--	--
			01399	00021	DS	C.7.2	--	--	--
			01399	00022	DS	C.4.3	--	--	--
			01399	00023	DS	C.4.2.2	--	--	--
			01399	00024	DS	C.7.1.1	C.7.2	--	--
			01399	00025	DS	C.7.4	C.7.1.2	--	--
			01399	00026	----------	C.2.7	--	--	--
	Berick, David	Environmental Policy Institute	01385	00001	----------	C.3.3.2	--	--	--
			01385	00005	----------	C.2.1.1	--	--	--
			01385	00006	----------	C.3.1.1	--	--	--
			01385	00007	----------	C.2.2	--	--	--
			01385	00008A	----------	C.2.7.1	--	--	--
			01385	00008B	----------	C.2.7.1	--	--	--
			01385	00009A	----------	C.3.1.2	--	--	--
			01385	00009B	----------	C.3.1.1	--	--	--
			01385	00010	----------	C.3.1.2	--	--	--
			01385	00011	----------	C.2.2.1	--	--	--
			01385	00012A	----------	C.2.2.1	--	--	--
			01385	00012B	----------	C.2.7	--	--	--
			01385	00012C	----------	C.3.1.1	--	--	--
			01385	00012D	----------	C.3.1.1	--	--	--
			01385	00012E	----------	C.3.1.2	--	--	--
			01385	00012F	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01385	00013	----------	C.3.3	--	--	--
			01385	00014	----------	C.3.3	--	--	--
			01385	00015	----------	C.3.3	--	--	--
			01385	00016A	----------	C.2.7	--	--	--
			01385	00016B	----------	C.2.4.1	--	--	--
			01385	00016C	----------	C.2.4.1	--	--	--
			01385	00016D	----------	C.2.4.1	--	--	--
			01385	00017	----------	C.2.6.1	--	--	--
			01385	00018	----------	C.3.4.3	C.7.3	--	--
			01385	00019	----------	C.2.4.1	--	--	--
			01385	00020	----------	C.2.4.1	--	--	--
			01385	00021	----------	C.3.4.2.2	C.3.4.3	--	--
			01385	00022A	----------	C.2.6.1	--	--	--
			01385	00022B	----------	C.2.4.1	--	--	--
			01385	00023A	----------	C.2.5.1	--	--	--
			01385	00023B	----------	C.2.4.1	--	--	--
			01385	00024	----------	C.2.4.1	--	--	--
			01385	00025	----------	C.2.4.1	--	--	--
	Berick, David	Environmental Policy Institute	01387	00001	----------	C.2.1.1	--	--	--
			01387	00005	----------	C.2.1.1	--	--	--
			01387	00006	----------	C.3.1.1	--	--	--
			01387	00007	----------	C.2.2	--	--	--
			01387	00008A	----------	C.2.7.1	--	--	--
			01387	00008B	----------	C.2.7.1	--	--	--
			01387	00009	----------	C.2.2.1	--	--	--
			01387	00010	----------	C.3.1.2	--	--	--
			01387	00011	----------	C.2.2.1	--	--	--
			01387	00012A	----------	C.2.2.1	--	--	--
			01387	00012B	----------	C.2.2.1	--	--	--
			01387	00012C	----------	C.3.1.1	--	--	--
			01387	00012D	----------	C.3.1.1	--	--	--
			01387	00012E	----------	C.3.3	--	--	--
			01387	00012F	----------	C.2.2.1	--	--	--
			01387	00013	----------	C.3.3	--	--	--
			01387	00014	----------	C.3.3	--	--	--
			01387	00015	----------	C.3.3	--	--	--
			01387	00016A	----------	C.2.7	--	--	--
			01387	00016B	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01387	00016C	----------	C.2.4.1	--	--	--
			01387	00016D	----------	C.2.4.1	--	--	--
			01387	00017	----------	C.2.6.1	--	--	--
			01387	00018	----------	C.3.4.3	C.7.3	--	--
			01387	00019	----------	C.2.4.1	--	--	--
			01387	00020	----------	C.2.4.1	--	--	--
			01387	00021	----------	C.2.4.1	C.3.4.3	--	--
			01387	00022A	----------	C.2.6.1	--	--	--
			01387	00022B	----------	C.2.4.1	--	--	--
			01387	00023A	----------	C.2.4.1	--	--	--
			01387	00023B	----------	C.2.4.1	--	--	--
			01387	00024	----------	C.2.4.1	--	--	--
			01387	00025	----------	C.2.4.1	--	--	--
	Berick, David	Environmental Policy Institute	01388	00001	----------	C.3.3	--	--	--
			01388	00002	----------	C.2.1.1	--	--	--
			01388	00005	----------	C.2.1.1	--	--	--
			01388	00006	----------	C.3.1.1	--	--	--
			01388	00007	----------	C.2.2	--	--	--
			01388	00008A	----------	C.2.7.1	--	--	--
			01388	00008B	----------	C.2.7.1	--	--	--
			01388	00009	----------	C.2.2.1	--	--	--
			01388	00010	----------	C.3.1.2	--	--	--
			01388	00011	----------	C.2.2.1	--	--	--
			01388	00012A	----------	C.2.2.1	--	--	--
			01388	00012B	----------	C.2.2.1	--	--	--
			01388	00012C	----------	C.3.1.1	--	--	--
			01388	00012D	----------	C.3.1.1	--	--	--
			01388	00012E	----------	C.3.3	--	--	--
			01388	00012F	----------	C.2.2.1	--	--	--
			01388	00013	----------	C.3.3	--	--	--
			01388	00014	----------	C.3.3	--	--	--
			01388	00015	----------	C.3.3	--	--	--
			01388	00016A	----------	C.2.7	--	--	--
			01388	00016B	----------	C.2.4.1	--	--	--
			01388	00016C	----------	C.2.4.1	--	--	--
			01388	00016D	----------	C.2.4.1	--	--	--
			01388	00017	----------	C.2.6.1	--	--	--
			01388	00018	----------	C.3.4.3	C.7.3	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01388	00019	----------	C.2.4.1	--	--	--
			01388	00020	----------	C.2.4.1	--	--	--
			01388	00021	----------	C.2.4.1	C.3.4.3	--	--
			01388	00022A	----------	C.2.6.1	--	--	--
			01388	00022B	----------	C.2.4.1	--	--	--
			01388	00023A	----------	C.2.5.1	--	--	--
			01388	00023B	----------	C.2.4.1	--	--	--
			01388	00024	----------	C.2.4.1	--	--	--
			01388	00025	----------	C.2.4.1	--	--	--
	Berick, David	Environmental Policy Institute	01389	00001	----------	C.3.3	--	--	--
			01389	00002	----------	C.2.1.1	--	--	--
			01389	00005	----------	C.2.1.1	--	--	--
			01389	00006	----------	C.3.1.1	--	--	--
			01389	00007	----------	C.2.2	--	--	--
			01389	00008A	----------	C.2.7.1	--	--	--
			01389	00008B	----------	C.2.7.1	--	--	--
			01389	00009	----------	C.2.2.1	--	--	--
			01389	00010	----------	C.3.1.2	--	--	--
			01389	00011	----------	C.2.2.1	--	--	--
			01389	00012A	----------	C.2.2.1	--	--	--
			01389	00012B	----------	C.2.2.1	--	--	--
			01389	00012C	----------	C.3.1.1	--	--	--
			01389	00012D	----------	C.3.1.1	--	--	--
			01389	00012E	----------	C.3.3	--	--	--
			01389	00012F	----------	C.2.2.1	--	--	--
			01389	00013	----------	C.3.3	--	--	--
			01389	00014	----------	C.3.3	--	--	--
			01389	00015	----------	C.3.3	--	--	--
			01389	00016A	----------	C.2.7	--	--	--
			01389	00016B	----------	C.2.4.1	--	--	--
			01389	00016C	----------	C.2.4.1	--	--	--
			01389	00016D	----------	C.2.4.1	--	--	--
			01389	00017	----------	C.2.6.1	--	--	--
			01389	00018	----------	C.3.4.3	C.7.3	--	--
			01389	00019	----------	C.2.4.1	--	--	--
			01389	00020	----------	C.2.4.1	--	--	--
			01389	00021	----------	C.2.4.1	C.3.4.3	--	--
			01389	00022A	----------	C.2.6.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01389	00022B	----------	C.2.4.1	--	--	--
			01389	00023A	----------	C.2.5.1	--	--	--
			01389	00023B	----------	C.2.4.1	--	--	--
			01389	00024	----------	C.2.4.1	--	--	--
			01389	00025	----------	C.2.4.1	--	--	--
	Berick, Director, David	Environmental Policy Institute	01386	00001	----------	C.2.1.1	--	--	--
			01386	00005	----------	C.2.1.1	--	--	--
			01386	00006	----------	C.3.1.1	--	--	--
			01386	00007	----------	C.2.2	--	--	--
			01386	00008A	----------	C.2.7.1	--	--	--
			01386	00008B	----------	C.2.7.1	--	--	--
			01386	00009	----------	C.2.2.1	--	--	--
			01386	00010	----------	C.3.1.2	--	--	--
			01386	00011	----------	C.2.2.1	--	--	--
			01386	00012A	----------	C.2.2.1	--	--	--
			01386	00012B	----------	C.2.2.1	--	--	--
			01386	00012C	----------	C.3.1.1	--	--	--
			01386	00012D	----------	C.3.1.1	--	--	--
			01386	00012E	----------	C.3.3	--	--	--
			01386	00012F	----------	C.2.2.1	--	--	--
			01386	00013	----------	C.3.3	--	--	--
			01386	00014	----------	C.3.3	--	--	--
			01386	00015	----------	C.3.3	--	--	--
			01386	00016A	----------	C.2.7	--	--	--
			01386	00016B	----------	C.2.4.1	--	--	--
			01386	00016C	----------	C.2.4.1	--	--	--
			01386	00016D	----------	C.2.4.1	--	--	--
			01386	00017	----------	C.2.6.1	--	--	--
			01386	00018	----------	C.3.4.3	--	--	--
			01386	00019	----------	C.2.4.1	--	--	--
			01386	00020	----------	C.2.4.1	--	--	--
			01386	00021	----------	C.2.4.1	C.3.4.3	--	--
			01386	00022A	----------	C.2.6.1	--	--	--
			01386	00022B	----------	C.2.4.1	--	--	--
			01386	00023A	----------	C.2.5.1	--	--	--
			01386	00023B	----------	C.2.4.1	--	--	--
			01386	00024	----------	C.2.4.1	--	--	--
			01386	00025	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
	Blakey, L. H.	Department of Army	02061	00001	RN	C.7.2.1	C.7.1.1	C.4.1.3.1	--
			02061	00002	RN	C.7.3	C.4.1.3.1	C.6.2	C.7.1.1
			02061	00003	RN	C.6.4	--	--	--
	Blakey, L. H.	Department of Army Plan. Div.	02065	00026	----------	C.2.7	--	--	--
			02065	00027	----------	C.3.1.1	--	--	--
			02065	00028	----------	C.3.1.1	--	--	--
			02065	00033	----------	C.3.1.2	--	--	--
			02065	00034	----------	C.3.3	--	--	--
			02065	00045	----------	C.3.1.1	--	--	--
			02065	00066A	----------	C.3.1.1	--	--	--
			02065	00077	----------	C.3.1.1	C.8.2	--	--
	Blanchard, Bruce	U.S. Dept. of Interior	02123	00001	----------	C.2.7	--	--	--
			02123	00002	----------	C.2.1.1	--	--	--
			02123	00003	DS	C.4.1.1	C.4.1.2	--	--
			02123	00004	----------	C.2.3.3	--	--	--
			02123	00005	----------	C.3.4.4	--	--	--
			02123	00006	----------	C.3.4.4	--	--	--
			02123	00007	----------	C.3.4.3	--	--	--
			02123	00008	----------	C.3.4.3	--	--	--
			02123	00009	----------	C.3.4.3	--	--	--
			02123	00010	----------	C.3.4.1	--	--	--
			02123	00011	----------	C.3.4.1	--	--	--
			02123	00012	----------	C.3.4.1	--	--	--
			02123	00013	----------	C.3.4.3	--	--	--
			02123	00014	----------	C.3.4.1	--	--	--
			02123	00015	----------	C.3.4.1	--	--	--
			02123	00016	----------	C.3.4.3	--	--	--
			02123	00017	----------	C.3.4.1	--	--	--
			02123	00018	----------	C.3.4.1	--	--	--
			02123	00019	----------	C.3.4.1	--	--	--
			02123	00020	----------	C.3.4.1	--	--	--
			02123	00021	----------	C.3.4.1	--	--	--
			02123	00022	----------	C.3.4.3	--	--	--
			02123	00023	----------	C.3.4.1	--	--	--
			02123	00024	----------	C.3.4.1	--	--	--
			02123	00025	----------	C.3.4.1	--	--	--
			02123	00026	----------	C.3.4.1	--	--	--
			02123	00027	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			02123	00028	----------	C.3.4.1	--	--	--
			02123	00029	----------	C.3.4.1	--	--	--
			02123	00030	----------	C.3.4.1	--	--	--
			02123	00031	----------	C.3.4.1	--	--	--
			02123	00032	----------	C.3.4.1	--	--	--
			02123	00033	----------	C.3.4.1	--	--	--
			02123	00034	----------	C.3.4.2.1	--	--	--
			02123	00035	----------	C.3.4.2.1	--	--	--
			02123	00036	----------	C.3.4.2	--	--	--
			02123	00037	----------	C.3.4.2.3	--	--	--
			02123	00039	----------	C.2.7	--	--	--
			02123	00040	----------	C.2.7	--	--	--
			02123	00041	----------	C.2.7	--	--	--
			02123	00042	DS	C.4.3	--	--	--
			02123	00043	DS	C.4.1.1.3	--	--	--
			02123	00044	RN	C.4.1.2.2	--	--	--
			02123	00045	RN	C.4.1.2.2	--	--	--
			02123	00046	DS	C.4.3	--	--	--
			02123	00047A	----------	C.2.4.1	--	--	--
			02123	00047B	----------	C.3.1.2	--	--	--
			02123	00048	DS	C.4.3	--	--	--
			02123	00049	DS	C.4.1.3	--	--	--
			02123	00050	DS	C.7.4	C.7.2.8	--	--
			02123	00051	DS	C.4.1.1.3	--	--	--
			02123	00052	DS	C.4.1.2.2	--	--	--
			02123	00053	DS	C.4.1.3.2	--	--	--
			02123	00054	DS	C.7.1.1.2	--	--	--
			02123	00055	DS	C.7.1.1.2	--	--	--
			02123	00056	DS	C.7.1.1.2	--	--	--
			02123	00057	DS	C.7.1.1.8	--	--	--
			02123	00058	DS	C.7.1.1.8	--	--	--
			02123	00059	DS	C.7.1.1.8	--	--	--
			02123	00060	DS	C.7.1.1.8	--	--	--
			02123	00061	DS	C.4.3	--	--	--
			02123	00062	DS	C.4.3	--	--	--
			02123	00063	DS	C.4.3	--	--	--
			02123	00064	DS	C.7.2.2	--	--	--
			02123	00065	DS	C.7.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			02123	00066	DS	C.5.1	--	--	--
			02123	00067	DS	C.6.1	--	--	--
			02123	00068	----------	C.3.3.2	--	--	--
	Blanchard, Bruce	U.S. Dept. of Interior	01598	00001	----------	C.2.7	--	--	--
			01598	00003	DC	C.4.1.1	C.4.1.2	--	--
			01598	00004	----------	C.2.3.3	--	--	--
			01598	00005	----------	C.3.4.4	--	--	--
			01598	00006	----------	C.3.4.4	--	--	--
			01598	00007	----------	C.3.4.3	--	--	--
			01598	00008	----------	C.3.4.3	--	--	--
			01598	00009	----------	C.3.4.3	--	--	--
			01598	00010	----------	C.3.4.1	--	--	--
			01598	00011	----------	C.3.4.1	--	--	--
			01598	00012	----------	C.3.4.1	--	--	--
			01598	00013	----------	C.3.4.3	--	--	--
			01598	00014	----------	C.3.4.1	--	--	--
			01598	00015	----------	C.3.4.1	--	--	--
			01598	00016	----------	C.3.4.3	--	--	--
			01598	00017	----------	C.3.4.1	--	--	--
			01598	00018	----------	C.3.4.1	--	--	--
			01598	00019	----------	C.3.4.1	--	--	--
			01598	00020	----------	C.3.4.1	--	--	--
			01598	00021	----------	C.3.4.1	--	--	--
			01598	00022	----------	C.3.4.3	--	--	--
			01598	00023	----------	C.3.4.1	--	--	--
			01598	00024	----------	C.3.4.1	--	--	--
			01598	00025	----------	C.3.4.1	--	--	--
			01598	00026	----------	C.3.4.1	--	--	--
			01598	00027	----------	C.3.4.1	--	--	--
			01598	00028	----------	C.3.4.1	--	--	--
			01598	00029	----------	C.3.4.1	--	--	--
			01598	00030	----------	C.3.4.1	--	--	--
			01598	00031	----------	C.3.4.1	--	--	--
			01598	00032	----------	C.3.4.1	--	--	--
			01598	00033	----------	C.3.4.1	--	--	--
			01598	00034	----------	C.3.4.2.1	--	--	--
			01598	00035	----------	C.3.4.2.1	--	--	--
			01598	00036	----------	C.3.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01598	00037	----------	C.3.4.2.3	--	--	--
			01598	00039	----------	C.2.7	--	--	--
			01598	00040	----------	C.2.7	--	--	--
			01598	00041	----------	C.2.7	--	--	--
			01598	00042A	DC	C.4.1.2.2	C.4.2.1	--	--
			01598	00042B	DC	C.4.2.1	--	--	--
			01598	00042C	DC	C.4.2.3	--	--	--
			01598	00042D	DC	C.4.2.3	--	--	--
			01598	00042E	DC	C.4.1.5	--	--	--
			01598	00042F	DC	C.7.4	--	--	--
			01598	00043	----------	C.4.1.4	--	--	--
			01598	00044	DC	C.4.1.2.2	C.5.1	--	--
			01598	00045	----------	C.3.4.2.2	--	--	--
			01598	00046	----------	C.3.4.1	--	--	--
			01598	00047A	----------	C.3.4.1	--	--	--
			01598	00047B	----------	C.3.4.1	--	--	--
			01598	00047C	----------	C.3.4.1	--	--	--
			01598	00048	----------	C.3.4.1	--	--	--
			01598	00049	----------	C.3.4.3	--	--	--
			01598	00050	DC	C.5.1	C.4.1.2.2	--	--
			01598	00051	DC	C.5.1	--	--	--
			01598	00052	DC	C.5.11	--	--	--
			01598	00053	----------	C.3.4.3	--	--	--
			01598	00054A	DC	C.3.2	--	--	--
			01598	00054B	DC	C.4.1.1.5	C.7.2.8	--	--
			01598	00055A	DC	C.4.1.2.2	--	--	--
			01598	00055B	DC	C.4.1.3.3	--	--	--
			01598	00055C	----------	C.3.4.3	--	--	--
			01598	00056	----------	C.3.4.3	--	--	--
			01598	00057	----------	C.2.7	--	--	--
			01598	00058	----------	C.3.1.2	--	--	--
			01598	00059	----------	C.2.7	--	--	--
			01598	00060	----------	C.2.7	--	--	--
			01598	00061	DC	C.3.1.3	--	--	--
			01598	00062	DC	C.3.2	C.4.3	C.8.2	--
			01598	00063	DC	C.5.9	--	--	--
			01598	00064	DC	C.3.3	--	--	--
			01598	00065	DC	C.3.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01598	00066	DC	C.4.3	--	--	--
			01598	00067	DC	C.4.1.1.5	C.5.7	--	--
			01598	00068	DC	C.4.1.1.5	--	--	--
			01598	00069	DC	C.4.1.1.5	--	--	--
			01598	00070	DC	C.4.1.1.7	--	--	--
			01598	00071	DC	C.4.1.1.8	--	--	--
			01598	00072	DC	C.4.1.1.9	--	--	--
			01598	00073	DC	C.4.1.2.1	--	--	--
			01598	00074	DC	C.4.1.2.1	--	--	--
			01598	00075	DC	C.4.1.2.1	--	--	--
			01598	00076	DC	C.4.1.2.1	--	--	--
			01598	00077	DC	C.4.1.2.2	--	--	--
			01598	00078	DC	C.4.1.2.1	--	--	--
			01598	00079	DC	C.4.1.2.2	--	--	--
			01598	00080	DC	C.4.1.2.2	--	--	--
			01598	00081	DC	C.4.1.2.2	--	--	--
			01598	00082	DC	C.4.1.2.2	--	--	--
			01598	00083	DC	C.4.1.2.2	--	--	--
			01598	00084	DC	C.4.1.2.2	--	--	--
			01598	00085	DC	C.4.1.2.2	--	--	--
			01598	00086	DC	C.4.1.2.2	--	--	--
			01598	00087	DC	C.4.1.2.2	--	--	--
			01598	00088	DC	C.4.1.3.1	--	--	--
			01598	00089	DC	C.4.1.3.1	--	--	--
			01598	00090	DC	C.4.1.3.1	--	--	--
			01598	00091	DC	C.4.1.3.1	--	--	--
			01598	00092	DC	C.4.1.3.2	--	--	--
			01598	00093	DC	C.4.1.3.2	--	--	--
			01598	00094	DC	C.4.1.3.2	--	--	--
			01598	00095	DC	C.4.1.3.2	--	--	--
			01598	00096	DC	C.4.1.3.2	--	--	--
			01598	00097	DC	C.4.1.3.2	--	--	--
			01598	00098	DC	C.4.1.3.3	--	--	--
			01598	00099	DC	C.4.1.3.4	--	--	--
			01598	00100	DC	C.4.1.3.5	--	--	--
			01598	00101	DC	C.4.1.3.6	--	--	--
			01598	00102	DC	C.4.1.3.6	--	--	--
			01598	00103	DC	C.4.1.5.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01598	00104	DC	C.4.1.5.2	--	--	--
			01598	00105	DC	C.4.1.5.3	--	--	--
			01598	00106A	DC	C.4.2.2	--	--	--
			01598	00106B	DC	C.3.2	--	--	--
			01598	00107	DC	C.4.2.1	--	--	--
			01598	00108	DC	C.4.2.1	--	--	--
			01598	00109	DC	C.4.2.2	--	--	--
			01598	00110	DC	C.4.2.2	C.7.1.1.8	--	--
			01598	00111	DC	C.4.2.3	--	--	--
			01598	00112	DC	C.4.2.3	--	--	--
			01598	00113	DC	C.4.2.3	--	--	--
			01598	00114	DC	C.4.2.3	--	--	--
			01598	00115	DC	C.4.2.3	--	--	--
			01598	00116	DC	C.4.2.3	--	--	--
			01598	00117	DC	C.4.2.3	--	--	--
			01598	00118	DC	C.4.2.3	--	--	--
			01598	00119	DC	C.7.1.1.1	--	--	--
			01598	00120	DC	C.7.1.1.1	--	--	--
			01598	00121	DC	C.7.1.1.1	--	--	--
			01598	00122	DC	C.7.1.1.2	--	--	--
			01598	00123	DC	C.7.1.1.2	--	--	--
			01598	00124	DC	C.7.1.1.3	--	--	--
			01598	00125	DC	C.7.1.1.3	--	--	--
			01598	00126	DC	C.7.1.1.3	--	--	--
			01598	00127	DC	C.7.1.1.3	--	--	--
			01598	00128	DC	C.7.1.1.3	--	--	--
			01598	00129	DC	C.7.1.1.3	--	--	--
			01598	00130	DC	C.7.1.1	--	--	--
			01598	00131	DC	C.7.1.1	--	--	--
			01598	00132	DC	C.7.1.1.5	--	--	--
			01598	00133	DC	C.7.1.1.5	--	--	--
			01598	00134	DC	C.7.1.1.5	--	--	--
			01598	00135	DC	C.7.1.1.5	--	--	--
			01598	00136	DC	C.7.1.1.4	--	--	--
			01598	00137	DC	C.7.1.1.4	--	--	--
			01598	00138	DC	C.7.1.1.4	--	--	--
			01598	00139	DC	C.7.1.1.4	--	--	--
			01598	00140	DC	C.7.1.1.6	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01598	00141	DC	C.7.1.1.6	--	--	--
			01598	00142	DC	C.7.1.1.6	--	--	--
			01598	00143	DC	C.7.1.1.9	--	--	--
			01598	00144	DC	C.7.1.1	--	--	--
			01598	00145	DC	C.7.1.1	--	--	--
			01598	00146	DC	C.7.1.1	--	--	--
			01598	00147	DC	C.7.1.1.3	--	--	--
			01598	00148	DC	C.7.1.1.3	--	--	--
			01598	00149	DC	C.6.2	--	--	--
			01598	00150	DC	C.4.2	--	--	--
			01598	00151	DC	C.7.1.1.6	--	--	--
			01598	00152	DC	C.7.1.1.6	--	--	--
			01598	00153	DC	C.4.3	--	--	--
			01598	00154	DC	C.4.3	--	--	--
			01598	00155	DC	C.4.3	--	--	--
			01598	00156	DC	C.4.3	--	--	--
			01598	00157	DC	C.5.1	--	--	--
			01598	00158	DC	C.4.1.3.3	C.4.3	--	--
			01598	00159	DC	C.5.1	--	--	--
			01598	00160	DC	C.7.2.1	--	--	--
			01598	00161	DC	C.7.2.1	--	--	--
			01598	00162	DC	C.7.2.1	--	--	--
			01598	00163	DC	C.7.2.2	--	--	--
			01598	00164	DC	C.7.2.2	--	--	--
			01598	00165	DC	C.7.2.3	--	--	--
			01598	00166	DC	C.7.2.3	--	--	--
			01598	00167	DC	C.7.2.3	--	--	--
			01598	00168	DC	C.7.2.2	C.7.2.3	--	--
			01598	00169	DC	C.7.2.3	--	--	--
			01598	00170	DC	C.7.2.4	--	--	--
			01598	00171	DC	C.7.2.4	--	--	--
			01598	00172	DC	C.7.2.5	--	--	--
			01598	00173	DC	C.7.2.6	--	--	--
			01598	00174	DC	C.7.2.6	--	--	--
			01598	00175	DC	C.7.4	--	--	--
			01598	00176	DC	C.7.2.4	--	--	--
			01598	00177	DC	C.7.4	--	--	--
			01598	00178	DC	C.7.2.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01598	00179	DC	C.7.4.2	--	--	--
			01598	00180A	DC	C.7.3	--	--	--
			01598	00180B	DC	C.7.2.2	--	--	--
			01598	00180C	DC	C.7.2	--	--	--
			01598	00180D	DC	C.7.2.6	--	--	--
			01598	00181	DC	C.5.1	C.7.2.8	--	--
			01598	00182	DC	C.7.2.5	--	--	--
			01598	00183A	DC	C.7.2.4	C.7.2.3	--	--
			01598	00183B	DC	C.7.2.6	--	--	--
			01598	00184	DC	C.7.2.4	--	--	--
			01598	00185	DC	C.7.3	--	--	--
			01598	00186	DC	C.7.3	--	--	--
			01598	00187	DC	C.7.3	--	--	--
			01598	00188	DC	C.7.3	--	--	--
			01598	00189	DC	C.7.3	--	--	--
			01598	00190	DC	C.7.2.8	--	--	--
			01598	00191	DC	C.7.4.2	--	--	--
			01598	00192	DC	C.7.4.2	--	--	--
			01598	00193	DC	C.7.4.3	--	--	--
			01598	00194	DC	C.4.3	--	--	--
			01598	00195	DC	C.4.3	--	--	--
			01598	00196	DC	C.4.3	--	--	--
			01598	00198A	DC	C.7.2.8	--	--	--
			01598	00198B	DC	C.7.4	--	--	--
			01598	00199	----------	C.3.4.3	--	--	--
			01598	00200	----------	C.2.8.3	--	--	--
			01598	00201	DC	C.5.9	--	--	--
			01598	00202	DC	C.5.9	--	--	--
			01598	00203	DC	C.5.9	--	--	--
			01598	00204	DC	C.6.1	--	--	--
			01598	00205	DC	C.5.9	--	--	--
			01598	00206	DC	C.5.9	--	--	--
			01598	00207	DC	C.6.3	--	--	--
			01598	00208	DC	C.7.2	--	--	--
			01598	00209	DC	C.7.2	--	--	--
			01598	00210	DC	C.7.2.5	--	--	--
			01598	00211	DC	C.7.2.3	--	--	--
			01598	00212	DC	C.7.2.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01598	00213	DC	C.7.2.5	--	--	--
			01598	00214	DC	C.7.2.1	--	--	--
			01598	00215	DC	C.7.2.6	--	--	--
			01598	00216A	DC	C.7.2.8	--	--	--
	Blanchard, Bruce		01598	00216B	DC	C.7.2.1	--	--	--
			01598	00217	----------	C.2.7	--	--	--
			01598	00218	DC	C.7.2.3	--	--	--
			01598	00219	DC	C.7.2	--	--	--
			01598	00220	DC	C.7.2.6	--	--	--
			01598	00221	DC	C.7.2	--	--	--
			01598	00222	DC	C.7.2.1	--	--	--
			01598	00223	DC	C.7.2	--	--	--
			01598	00224	DC	C.7.5	--	--	--
			01598	00225	DC	C.5.1	--	--	--
			01598	00226	DC	C.5.1	--	--	--
			01598	00227	DC	C.5.1	--	--	--
			01598	00228	DC	C.5.2	--	--	--
			01598	00229	DC	C.5.2	--	--	--
			01598	00230	DC	C.5.3	--	--	--
			01598	00231	DC	C.5.3	--	--	--
			01598	00232	DC	C.5.4	--	--	--
			01598	00233	DC	C.5.6	--	--	--
			01598	00234	DC	C.5.6	--	--	--
			01598	00235	DC	C.5.8	--	--	--
			01598	00236	DC	C.5.2	--	--	--
			01598	00237	DC	C.8.1	--	--	--
			01598	00238	DC	C.8.2	--	--	--
			01598	00239	DC	C.5.11	--	--	--
			01598	00240	DC	C.5.11	--	--	--
			01598	00241	DC	C.5.11	--	--	--
			01598	00242	DC	C.5.11	--	--	--
			01598	00243	DC	C.5.11	--	--	--
			01598	00244	DC	C.5.11	--	--	--
			01598	00245	----------	C.3.4.4	--	--	--
			01598	00246	----------	C.3.4.1	--	--	--
			01598	00247	----------	C.3.4.1	--	--	--
			01598	00248	----------	C.3.4.1	--	--	--
			01598	00249	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01598	00250	----------	C.3.4.1	--	--	--
			01598	00251	----------	C.3.4.2.2	--	--	--
			01598	00252	----------	C.2.4.1	--	--	--
			01598	00253	----------	C.2.7	--	--	--
			01598	00254	----------	C.2.7	--	--	--
			01598	00255	----------	C.2.7	--	--	--
			01598	00256	----------	C.2.7	--	--	--
			01598	00257	----------	C.2.7	--	--	--
			01598	00258	----------	C.2.7	--	--	--
			01598	00259	----------	C.2.7	--	--	--
			01598	00260	----------	C.2.7	--	--	--
			01598	00261	----------	C.2.7	--	--	--
			01598	00262	----------	C.2.7	--	--	--
			01598	00263	----------	C.2.7	--	--	--
			01598	00264	----------	C.2.7	--	--	--
			01598	00266	DC	C.5.8	--	--	--
			01598	00274	DC	C.4.1.3.2	--	--	--
			01598	00277	DC	C.4.1.3.2	--	--	--
			01598	00279	DC	C.4.1.3.2	--	--	--
			01598	00280	DC	C.4.1.3.2	--	--	--
			01598	00282	DC	C.4.1.3.5	--	--	--
			01598	00283	DC	C.4.1.3.5	--	--	--
			01598	00284	DC	C.4.1.3.7	--	--	--
			01598	00285	DC	C.4.1.4	--	--	--
			01598	00286	DC	C.4.1.4	--	--	--
			01598	00287	DC	C.4.1.5.1	--	--	--
			01598	00288	DC	C.4.1.5.2	--	--	--
			01598	00289	DC	C.4.1.5.3	--	--	--
			01598	00290	DC	C.4.1.5.4	--	--	--
			01598	00295	DC	C.4.2.3	--	--	--
			01598	00296	DC	C.7.1.1.2	--	--	--
			01598	00297	DC	C.7.1.1.2	--	--	--
			01598	00298	DC	C.7.1.1.3	--	--	--
			01598	00299	DC	C.7.1.1.3	--	--	--
			01598	00300	DC	C.7.1.1.4	--	--	--
			01598	00301	DC	C.7.1.1.4	--	--	--
			01598	00302	DC	C.7.1.1.6	--	--	--
			01598	00303	DC	C.7.1.1.6	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01598	00304	DC	C.7.1.1.6	--	--	--
			01598	00305	DC	C.7.1.1.3	--	--	--
			01598	00306	DC	C.7.1.2	--	--	--
			01598	00307	DC	C.7.1.2	--	--	--
			01598	00308	DC	C.7.2.1	--	--	--
			01598	00309	DC	C.7.2.2	--	--	--
			01598	00310	DC	C.7.4.2	--	--	--
			01598	00311	DC	C.7.4.2	--	--	--
			01598	00312	DC	C.7.4.3	--	--	--
			01598	00313	DC	C.7.4.1	C.7.4.4	--	--
			01598	00315	DC	C.4.1.1.5	--	--	--
			01598	00316	DC	C.4.1.1.6	--	--	--
			01598	00317	DC	C.4.1.1.5	--	--	--
			01598	00318	DC	C.4.1.1.5	--	--	--
			01598	00319	DC	C.5.1	--	--	--
			01598	00320	DC	C.4.3	--	--	--
			01598	00321	----------	C.3.4.3	--	--	--
			01598	00322A	DC	C.5.11	--	--	--
			01598	00322B	DC	C.5.6	--	--	--
			01598	00322C	DC	C.5.11	--	--	--
			01598	00323A	DC	C.4.1.2.1	--	--	--
			01598	00323B	DC	C.4.1.2.2	--	--	--
			01598	00323C	DC	C.4.1.5	--	--	--
			01598	00323D	DC	C.4.1.5.2	--	--	--
			01598	00323E	DC	C.4.1.5.2	C.7.2.8	--	--
			01598	00323F	DC	C.7.2.8	C.7.4.2	--	--
			01598	00323G	DC	C.4.3	--	--	--
			01598	00324	DC	C.5.1	--	--	--
			01598	00325	DC	C.7.2	--	--	--
			01598	00326	----------	C.3.1.2	C.2.2.2	--	--
			01598	00327	DC	C.7.2	--	--	--
			01598	00328	DC	C.4.1.3.2	--	--	--
			01598	00328A	----------	C.3.4.1	--	--	--
			01598	00329	DC	C.4.1.3.6	C.7.1.1.6	C.7.2.6	--
			01598	00330	DC	C.4.1.3.5	C.7.1.1.4	C.7.2.4	--
			01598	00331	DC	C.7.1.1.4	C.7.2.4	--	--
			01598	00332	DC	C.7.1.1.5	C.7.2.5	--	--
			01598	00333	DC	C.7.1.2	C.7.4	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01598	00334	DC	C.7.5	--	--	--
			01598	00335	----------	C.3.3.1	--	--	--
			01598	00336	DC	C.5.1	C.7.2.8	--	--
			01598	00337	DC	C.7.2	--	--	--
			01598	00342A	DC	C.4.1.2.2	--	--	--
			01598	00342B	DC	C.4.2.1	--	--	--
			01598	00342C	DC	C.4.2.2	--	--	--
	Blanchard, Bruce	U.S. Dept. of Interior	02122	00001	DC	C.7.4	--	--	--
			02122	00002	----------	C.2.1.1	--	--	--
			02122	00004	----------	C.2.3.3	--	--	--
			02122	00005	----------	C.3.4.4	--	--	--
			02122	00006	----------	C.3.4.4	--	--	--
			02122	00007	----------	C.3.4.3	--	--	--
			02122	00008	----------	C.3.4.3	--	--	--
			02122	00009	----------	C.3.4.3	--	--	--
			02122	00010	----------	C.3.4.1	--	--	--
			02122	00011	----------	C.3.4.1	--	--	--
			02122	00012	----------	C.3.4.1	--	--	--
			02122	00013	----------	C.3.4.3	--	--	--
			02122	00014	----------	C.3.4.1	--	--	--
			02122	00015	----------	C.3.4.1	--	--	--
			02122	00016	----------	C.3.4.3	--	--	--
			02122	00017	----------	C.3.4.1	--	--	--
			02122	00018	----------	C.3.4.1	--	--	--
			02122	00019	----------	C.3.4.1	--	--	--
			02122	00020	----------	C.3.4.1	--	--	--
			02122	00021	----------	C.3.4.1	--	--	--
			02122	00022	----------	C.3.4.3	--	--	--
			02122	00023	----------	C.3.4.1	--	--	--
			02122	00024	----------	C.3.4.1	--	--	--
			02122	00025	----------	C.3.4.1	--	--	--
			02122	00026	----------	C.3.4.1	--	--	--
			02122	00027	----------	C.3.4.1	--	--	--
			02122	00028	----------	C.3.4.1	--	--	--
			02122	00029	----------	C.3.4.1	--	--	--
			02122	00030	----------	C.3.4.1	--	--	--
			02122	00031	----------	C.3.4.1	--	--	--
			02122	00032	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			02122	00033	----------	C.3.4.1	--	--	--
			02122	00034	----------	C.3.4.2.1	--	--	--
			02122	00035	----------	C.3.4.2.1	--	--	--
			02122	00036	----------	C.3.4.2	--	--	--
			02122	00037	----------	C.3.4.2.3	--	--	--
			02122	00039	----------	C.2.7	--	--	--
			02122	00040	----------	C.2.7	--	--	--
			02122	00041	----------	C.2.7	--	--	--
			02122	00046	----------	C.2.7	--	--	--
			02122	00047	----------	C.2.7	--	--	--
	Blanchard, Bruce	U.S. Dept. of Interior	01565	00001	----------	C.2.7	--	--	--
			01565	00002	----------	C.2.1.1	--	--	--
			01565	00004	----------	C.2.3.3	--	--	--
			01565	00005	----------	C.3.4.4	--	--	--
			01565	00006	----------	C.3.4.4	--	--	--
			01565	00007	----------	C.3.4.3	--	--	--
			01565	00008	----------	C.3.4.3	--	--	--
			01565	00009	----------	C.3.4.3	--	--	--
			01565	00010	----------	C.3.4.1	--	--	--
			01565	00011	----------	C.3.4.1	--	--	--
			01565	00012	----------	C.3.4.1	--	--	--
			01565	00013	----------	C.3.4.3	--	--	--
			01565	00014	----------	C.3.4.1	--	--	--
			01565	00015	----------	C.3.4.1	--	--	--
			01565	00016	----------	C.3.4.3	--	--	--
			01565	00017	----------	C.3.4.1	--	--	--
			01565	00018	----------	C.3.4.1	--	--	--
			01565	00019	----------	C.3.4.1	--	--	--
			01565	00020	----------	C.3.4.1	--	--	--
			01565	00021	----------	C.3.4.1	--	--	--
			01565	00022	----------	C.3.4.3	--	--	--
			01565	00023	----------	C.3.4.1	--	--	--
			01565	00024	----------	C.3.4.1	--	--	--
			01565	00025	----------	C.3.4.1	--	--	--
			01565	00026	----------	C.3.4.1	--	--	--
			01565	00027	----------	C.3.4.1	--	--	--
			01565	00028	----------	C.3.4.1	--	--	--
			01565	00029	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01565	00030	----------	C.3.4.1	--	--	--
			01565	00031	----------	C.3.4.1	--	--	--
			01565	00032	----------	C.3.4.1	--	--	--
			01565	00033	----------	C.3.4.1	--	--	--
			01565	00034	----------	C.3.4.2	--	--	--
			01565	00035	----------	C.3.4.2.1	--	--	--
			01565	00036	----------	C.3.4.2	--	--	--
			01565	00037	----------	C.3.4.2.3	--	--	--
			01565	00039	----------	C.2.7	--	--	--
			01565	00040	----------	C.2.7	--	--	--
			01565	00041	----------	C.2.7	--	--	--
			01565	00043	----------	C.2.7	--	--	--
	Blanchard, Bruce	U.S. Dept. of Interior	01599	00001	----------	C.2.7	--	--	--
			01599	00002	----------	C.2.1.1	--	--	--
			01599	00004	----------	C.2.3.3	--	--	--
			01599	00005	----------	C.3.4.4	--	--	--
			01599	00006	----------	C.3.4.1	--	--	--
			01599	00007	----------	C.3.4.1	--	--	--
			01599	00008	----------	C.3.4.3	--	--	--
			01599	00009	----------	C.3.4	--	--	--
			01599	00010	----------	C.3.4.1	--	--	--
			01599	00011	----------	C.3.4.1	--	--	--
			01599	00012	----------	C.3.4.1	--	--	--
			01599	00013	----------	C.3.4	--	--	--
			01599	00014	----------	C.3.4.1	--	--	--
			01599	00015	----------	C.3.4.1	--	--	--
			01599	00016	----------	C.3.4.1	--	--	--
			01599	00017	----------	C.3.4.1	--	--	--
			01599	00018	----------	C.3.4.1	--	--	--
			01599	00019	----------	C.3.4.1	--	--	--
			01599	00020	----------	C.3.4.1	--	--	--
			01599	00021	----------	C.3.4.1	--	--	--
			01599	00022	----------	C.3.4.3	--	--	--
			01599	00023	----------	C.3.4.1	--	--	--
			01599	00024	----------	C.3.4.1	--	--	--
			01599	00025	----------	C.3.4.1	--	--	--
			01599	00026	----------	C.3.4.1	--	--	--
			01599	00027	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01599	00028	----------	C.3.4.1	--	--	--
			01599	00029	----------	C.3.4.1	--	--	--
			01599	00030	----------	C.3.4.1	--	--	--
			01599	00031	----------	C.3.4.1	--	--	--
			01599	00032	----------	C.3.4.1	--	--	--
			01599	00033	----------	C.3.4.1	--	--	--
			01599	00034	----------	C.3.4.2.1	--	--	--
			01599	00035	----------	C.3.4.2.1	--	--	--
			01599	00036	----------	C.3.4.2	--	--	--
			01599	00037	----------	C.3.4.2.3	--	--	--
			01599	00039	----------	C.2.7	--	--	--
			01599	00040	----------	C.2.7	--	--	--
			01599	00041	----------	C.2.7	--	--	--
			01599	00047B	----------	C.3.4.1	--	--	--
			01599	00047C	----------	C.3.4.1	--	--	--
			01599	00048	----------	C.3.4.1	--	--	--
			01599	00053	DC	C.7.2	--	--	--
			01599	00054	DC	C.7.2	--	--	--
			01599	00062	----------	C.3.1.1	--	--	--
			01599	00066	----------	C.4.1.4	C.7.3	--	--
			01599	00068	----------	C.3.1.1	--	--	--
			01599	00069	----------	C.3.4.1	--	--	--
			01599	00070A	----------	C.3.4.1	--	--	--
			01599	00070B	----------	C.3.4.1	--	--	--
			01599	00070C	----------	C.3.4.1	--	--	--
			01599	00071	----------	C.3.4.1	--	--	--
			01599	00072	----------	C.3.4.2.1	--	--	--
			01599	00076	----------	C.3.4.3	--	--	--
			01599	00078	----------	C.3.4.3	--	--	--
			01599	00078C	----------	C.3.4.3	--	--	--
			01599	00079	----------	C.3.4.3	--	--	--
			01599	00081	----------	C.2.7	--	--	--
			01599	00082	----------	C.2.7	--	--	--
			01599	00083	----------	C.2.7	--	--	--
			01599	00085	DC	C.3.2	C.4.3	C.8.2	--
			01599	00208	----------	C.3.1.1	--	--	--
			01599	00209	----------	C.2.8.3	--	--	--
			01599	00216	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01599	00217	----------	C.2.7	--	--	--
			01599	00226	----------	C.2.7	--	--	--
			01599	00246	----------	C.3.4.1	--	--	--
			01599	00247	----------	C.3.4.1	--	--	--
			01599	00248	----------	C.3.4.1	--	--	--
			01599	00249	----------	C.3.4.1	--	--	--
			01599	00250	----------	C.3.4.1	--	--	--
			01599	00251	----------	C.3.4.2.2	--	--	--
			01599	00252	----------	C.2.4.1	--	--	--
			01599	00252B	----------	C.3.4.2.2	--	--	--
			01599	00264	----------	C.2.7	--	--	--
	Blanchard, Bruce	U.S. Dept. of Interior	01566	00002	----------	C.2.1.1	--	--	--
			01566	00003	----------	C.2.7	--	--	--
			01566	00004	----------	C.2.3.3	--	--	--
			01566	00005	----------	C.3.4.4	--	--	--
			01566	00006	----------	C.3.4.1	--	--	--
			01566	00007	----------	C.3.4.3	--	--	--
			01566	00008	----------	C.3.4.3	--	--	--
			01566	00009	----------	C.3.4	--	--	--
			01566	00010	----------	C.3.4.1	--	--	--
			01566	00011	----------	C.3.4.1	--	--	--
			01566	00012	----------	C.3.4.1	--	--	--
			01566	00013	----------	C.3.4	--	--	--
			01566	00014	----------	C.3.4.1	--	--	--
			01566	00015	----------	C.3.4.1	--	--	--
			01566	00016	----------	C.3.4.1	--	--	--
			01566	00017	----------	C.3.4.1	--	--	--
			01566	00018	----------	C.3.4.1	--	--	--
			01566	00019	----------	C.3.4.1	--	--	--
			01566	00020	----------	C.3.4.1	--	--	--
			01566	00021	----------	C.3.4.1	--	--	--
			01566	00022	----------	C.3.4.3	--	--	--
			01566	00023	----------	C.3.4.1	--	--	--
			01566	00024	----------	C.3.4.1	--	--	--
			01566	00025	----------	C.3.4.1	--	--	--
			01566	00026	----------	C.3.4.1	--	--	--
			01566	00027	----------	C.3.4.1	--	--	--
			01566	00028	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01566	00029	----------	C.3.4.1	--	--	--
			01566	00030	----------	C.3.4.1	--	--	--
			01566	00031	----------	C.3.4.1	--	--	--
			01566	00032	----------	C.3.4.1	--	--	--
			01566	00033	----------	C.3.4.1	--	--	--
			01566	00034	----------	C.3.4.2.1	--	--	--
			01566	00035	----------	C.3.4.2.1	--	--	--
			01566	00036	----------	C.3.4.2.3	--	--	--
			01566	00037	----------	C.2.3.2	--	--	--
			01566	00038	----------	C.2.7	--	--	--
			01566	00039	----------	C.2.7	--	--	--
			01566	00040	----------	C.2.7	--	--	--
			01566	00123	----------	C.3.4	--	--	--
			01566	00124	----------	C.3.4	--	--	--
			01566	00125	----------	C.3.4	--	--	--
			01566	00126	----------	C.3.4	--	--	--
			01566	00127	----------	C.3.4	--	--	--
			01566	00128	----------	C.3.4	--	--	--
			01566	00129	----------	C.3.4	--	--	--
			01566	00130	----------	C.3.4	--	--	--
			01566	00131	----------	C.3.4	--	--	--
			01566	00132	----------	C.3.4	--	--	--
			01566	00133	----------	C.3.4	--	--	--
			01566	00134	----------	C.3.4	--	--	--
	Blanchard, Bruce	U.S. Dept. of Interior	01567	00001	----------	C.2.7	--	--	--
			01567	00002	----------	C.2.1.1	--	--	--
			01567	00003	RN	C.4.1.2.2	--	--	--
			01567	00004	----------	C.2.3.3	--	--	--
			01567	00005	----------	C.3.4.4	--	--	--
			01567	00006	----------	C.3.4.4	--	--	--
			01567	00007	----------	C.3.4.3	--	--	--
			01567	00008	----------	C.3.4.3	--	--	--
			01567	00009	----------	C.3.4.3	--	--	--
			01567	00010	----------	C.3.4.1	--	--	--
			01567	00011	----------	C.3.4.1	--	--	--
			01567	00012	----------	C.3.4.1	--	--	--
			01567	00013	----------	C.3.4.3	--	--	--
			01567	00014	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01567	00015	----------	C.3.4.1	--	--	--
			01567	00016	----------	C.3.4.3	--	--	--
			01567	00017	----------	C.3.4.1	--	--	--
			01567	00018	----------	C.3.4.1	--	--	--
			01567	00019	----------	C.3.4.1	--	--	--
			01567	00020	----------	C.3.4.1	--	--	--
			01567	00021	----------	C.3.4.1	--	--	--
			01567	00022	----------	C.3.4.3	--	--	--
			01567	00023	----------	C.3.4.1	--	--	--
			01567	00024	----------	C.3.4.1	--	--	--
			01567	00025	----------	C.3.4.1	--	--	--
			01567	00026	----------	C.3.4.1	--	--	--
			01567	00027	----------	C.3.4.1	--	--	--
			01567	00028	----------	C.3.4.1	--	--	--
			01567	00029	----------	C.3.4.1	--	--	--
			01567	00030	----------	C.3.4.1	--	--	--
			01567	00031	----------	C.3.4.1	--	--	--
			01567	00032	----------	C.3.4.1	--	--	--
			01567	00033	----------	C.3.4.1	--	--	--
			01567	00034	----------	C.3.4.2.1	--	--	--
			01567	00035	----------	C.3.4.2.1	--	--	--
			01567	00036	----------	C.3.4.4	--	--	--
			01567	00037	----------	C.2.3.2	--	--	--
			01567	00038	----------	C.2.7	--	--	--
			01567	00039	----------	C.2.7	--	--	--
			01567	00040	----------	C.2.7	--	--	--
			01567	00041	RN	C.4.1.2	--	--	--
			01567	00042	RN	C.4.3	--	--	--
			01567	00043	RN	C.4.1.1.3	C.4.1.2.2	--	--
			01567	00044	RN	C.4.1.2.2	--	--	--
			01567	00045	RN	C.7.2.2	--	--	--
			01567	00046	RN	C.4.1.2.2	--	--	--
			01567	00047	RN	C.4.1.2.2	--	--	--
			01567	00048	RN	C.6.1	--	--	--
			01567	00049	RN	C.4.1.1.1	--	--	--
			01567	00050	RN	C.4.1.1.1	--	--	--
			01567	00051	RN	C.4.1.2.2	--	--	--
			01567	00052	RN	C.4.1.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01567	00053	RN	C.4.2.1	--	--	--
			01567	00054	RN	C.4.4.2	--	--	--
			01567	00055	RN	C.5.1	--	--	--
			01567	00056	RN	C.5.2	--	--	--
			01567	00057	RN	C.5.10	--	--	--
	Buren, Mindy A.	LeBoeuf, Lamb, Leiby, & MacRae	02252	00001	----------	C.2.4.1	--	--	--
			02252	00002	----------	C.2.4.1	--	--	--
			02252	00003	----------	C.2.4.1	--	--	--
			02252	00004	----------	C.2.4.1	--	--	--
			02252	00005	----------	C.2.4.1	--	--	--
			02252	00006	----------	C.2.4.1	--	--	--
			02252	00007	----------	C.2.4.1	--	--	--
			02252	00008	----------	C.2.4.1	--	--	--
			02252	00009	----------	C.2.4.1	--	--	--
			02252	00010	----------	C.2.4.1	--	--	--
			02252	00011	----------	C.2.4.1	--	--	--
			02252	00012	----------	C.2.4.1	--	--	--
			02252	00013	----------	C.2.4.1	--	--	--
			02252	00014	----------	C.2.4.1	--	--	--
			02252	00015	----------	C.2.4.1	--	--	--
			02252	00016	----------	C.2.4.1	--	--	--
			02252	00017	----------	C.2.4.1	--	--	--
			02252	00018	----------	C.2.4.1	--	--	--
			02252	00019	----------	C.2.4.1	--	--	--
			02252	00020	----------	C.2.4.1	--	--	--
			02252	00021	----------	C.2.4.1	--	--	--
			02252	00022	----------	C.2.4.1	--	--	--
			02252	00023	----------	C.2.4.1	--	--	--
			02252	00024	----------	C.2.4.1	--	--	--
			02252	00025	----------	C.2.4.1	--	--	--
			02252	00026	----------	C.2.4.1	--	--	--
			02252	00027	----------	C.2.4.1	--	--	--
			02252	00028	----------	C.2.4.1	--	--	--
			02252	00029	----------	C.2.4.1	--	--	--
			02252	00030	----------	C.2.4.1	--	--	--
			02252	00031	----------	C.2.4.1	--	--	--
			02252	00032	----------	C.2.4.1	--	--	--
			02252	00033	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			02252	00034	----------	C.2.4.1	--	--	--
			02252	00035	----------	C.2.4.1	--	--	--
			02252	00036	----------	C.2.4.1	--	--	--
			02252	00037	----------	C.2.4.1	--	--	--
			02252	00038	----------	C.2.4.1	--	--	--
			02252	00039	----------	C.2.4.1	--	--	--
			02252	00040	----------	C.2.4.1	--	--	--
			02252	00041	----------	C.2.4.1	--	--	--
			02252	00042	----------	C.2.4.1	--	--	--
			02252	00043	----------	C.2.4.1	--	--	--
			02252	00044	----------	C.2.4.1	--	--	--
			02252	00045	----------	C.2.4.1	--	--	--
			02252	00046	----------	C.2.4.1	--	--	--
			02252	00047	----------	C.2.4.1	--	--	--
			02252	00048	----------	C.2.4.1	--	--	--
			02252	00049	----------	C.2.4.1	--	--	--
	Davis, John G.	U.S. Nuclear Reg. Commission	01037	00008	----------	C.3.4.2.3	--	--	--
			01037	00137	----------	C.3.4.3	--	--	--
			01037	00139	----------	C.7.3	--	--	--
	Davis, John G.	U.S. Nuclear Reg. Commission	01038	00009	----------	C.3.4.2.3	--	--	--
			01038	00010	----------	C.3.4.3	--	--	--
			01038	00015	----------	C.2.7	--	--	--
			01038	00017	----------	C.2.7	--	--	--
			01038	00018	----------	C.2.7	--	--	--
			01038	00084	----------	C.2.4.1	--	--	--
			01038	00085	----------	C.2.4.1	--	--	--
			01038	00087	----------	C.2.1.2	C.7.4	--	--
	Davis, John G.	U.S. Nuclear Reg. Commission	01039	00011	----------	C.3.4.2.3	--	--	--
			01039	00012	----------	C.3.4.3	--	--	--
			01039	00015	----------	C.7.3	--	--	--
			01039	00199	----------	C.3.4.1	--	--	--
			01039	00200	----------	C.2.7	--	--	--
	Davis, John G.	U.S. Nuclear Reg. Commission	01040	00001	RN	C.5.1	--	--	--
			01040	00002	RN	C.5.6	C.4.1.1.5	--	--
			01040	00003	RN	C.5.1	--	--	--
			01040	00004	RN	C.5.2	--	--	--
			01040	00005	RN	C.5.3	C.8.2	--	--
			01040	00006	RN	C.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01040	00007	RN	C.8.2	C.4.3	--	--
			01040	00008	RN	C.5.11	--	--	--
			01040	00009	RN	C.7.4	C.5.9	C.5.8	--
			01040	00010	----------	C.3.4.2.3	--	--	--
			01040	00011	----------	C.3.4.3	--	--	--
			01040	00012	RN	C.4.1.1.8	C.5.8	--	--
			01040	00013	RN	C.4.3	--	--	--
			01040	00014	RN	C.7.3	--	--	--
			01040	00015	RN	C.4.1.1.5	--	--	--
			01040	00016	RN	C.4.1.1.5	--	--	--
			01040	00017	RN	C.4.1.1.5	--	--	--
			01040	00018	RN	C.4.1.1.5	--	--	--
			01040	00019	RN	C.4.1.1.5	--	--	--
			01040	00020	RN	C.5.3	C.8.2	--	--
			01040	00021	RN	C.4.1.1.5	--	--	--
			01040	00022	RN	C.4.1.1.6	--	--	--
			01040	00023	RN	C.4.1.1.6	--	--	--
			01040	00024	RN	C.4.1.1.6	--	--	--
			01040	00025	RN	C.4.1.1.6	--	--	--
			01040	00026	RN	C.4.1.1.6	--	--	--
			01040	00027	RN	C.4.1.1.6	--	--	--
			01040	00028	RN	C.4.1.1.6	--	--	--
			01040	00029	RN	C.4.1.1.7	--	--	--
			01040	00030	RN	C.4.1.2.1	--	--	--
			01040	00031	RN	C.4.1.2.1	--	--	--
			01040	00032	RN	C.4.1.2.2	--	--	--
			01040	00033	RN	C.4.1.2.2	--	--	--
			01040	00034	RN	C.4.1.2.3	--	--	--
			01040	00035	RN	C.4.1.3.2	--	--	--
			01040	00036	RN	C.4.1.3.2	--	--	--
			01040	00037	RN	C.4.1.3.2	--	--	--
			01040	00038	RN	C.4.2.2	--	--	--
			01040	00039	RN	C.4.2.2	--	--	--
			01040	00040	RN	C.4.2.2	--	--	--
			01040	00041	RN	C.4.2.2	C.7.1.1	--	--
			01040	00042	RN	C.4.2.3	--	--	--
			01040	00043	RN	C.4.2.3	--	--	--
			01040	00044	RN	C.7.1.1.8	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01040	00045	RN	C.7.1.1.8	--	--	--
			01040	00046	RN	C.7.1.1.8	--	--	--
			01040	00047	RN	C.4.3	--	--	--
			01040	00048	RN	C.7.1.1.5	--	--	--
			01040	00049	RN	C.7.1.1.5	--	--	--
			01040	00050	RN	C.4.2.2	--	--	--
			01040	00051	RN	C.4.3	--	--	--
			01040	00052	RN	C.4.3	--	--	--
			01040	00053	RN	C.4.3	--	--	--
			01040	00054	RN	C.4.3	--	--	--
			01040	00055	RN	C.4.3	C.8.2	--	--
			01040	00056	RN	C.5.7	--	--	--
			01040	00057	RN	C.5.3	--	--	--
			01040	00058	RN	C.5.3	--	--	--
			01040	00059	RN	C.7.3	--	--	--
			01040	00060	RN	C.7.3	--	--	--
			01040	00061	RN	C.7.3	--	--	--
			01040	00062	RN	C.7.3	--	--	--
			01040	00063	RN	C.7.4.1	--	--	--
			01040	00064	RN	C.7.4.1	--	--	--
			01040	00065	RN	C.7.4.5	--	--	--
			01040	00066	RN	C.4.3	C.5.11	C.5.1	--
			01040	00067	RN	C.4.3	--	--	--
			01040	00068	RN	C.7.2	--	--	--
			01040	00069	RN	C.5.9	--	--	--
			01040	00070	RN	C.5.9	--	--	--
			01040	00071	RN	C.6.3	--	--	--
			01040	00072	RN	C.6.4	--	--	--
			01040	00073	RN	C.7.2.3	C.7.1.1.3	--	--
			01040	00074	RN	C.7.3	--	--	--
			01040	00075	RN	C.7.3	--	--	--
			01040	00076	RN	C.7.2.7	--	--	--
			01040	00077	RN	C.7.1.1.8	C.5.11	--	--
			01040	00078	RN	C.5.1	--	--	--
			01040	00079	RN	C.5.1	--	--	--
			01040	00080	RN	C.5.1	C.5.11	--	--
			01040	00081	RN	C.5.1	--	--	--
			01040	00082	RN	C.5.1	C.5.11	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01040	00083	RN	C.5.11	--	--	--
			01040	00084	RN	C.5.1	C.5.11	--	--
			01040	00085	RN	C.5.2	--	--	--
			01040	00086	RN	C.5.2	--	--	--
			01040	00087	RN	C.5.2	--	--	--
			01040	00088	RN	C.5.2	--	--	--
			01040	00089	RN	C.5.3	--	--	--
			01040	00090	RN	C.5.3	--	--	--
			01040	00091	RN	C.5.3	--	--	--
			01040	00092	RN	C.5.3	--	--	--
			01040	00093	RN	C.4.3	--	--	--
			01040	00094	RN	C.5.3	--	--	--
			01040	00095	RN	C.4.3	--	--	--
			01040	00096	RN	C.4.3	--	--	--
			01040	00097	RN	C.8.5	--	--	--
			01040	00098	RN	C.5.3	--	--	--
			01040	00099	RN	C.5.3	--	--	--
			01040	00100	RN	C.5.3	--	--	--
			01040	00101	RN	C.5.3	C.4.3	--	--
			01040	00102	RN	C.5.6	C.4.1.1.5	--	--
			01040	00103	RN	C.5.6	--	--	--
			01040	00104	RN	C.5.6	C.4.1.1.5	--	--
			01040	00105	RN	C.5.6	C.4.1.1.5	--	--
			01040	00106	RN	C.5.7	--	--	--
			01040	00107	RN	C.5.7	C.4.2	C.4.1.1.2	--
			01040	00108	RN	C.4.1.1.5	--	--	--
			01040	00109	RN	C.5.8	--	--	--
			01040	00110	RN	C.5.8	C.4.1.1.8	--	--
			01040	00111	RN	C.5.8	--	--	--
			01040	00112	RN	C.5.3	--	--	--
			01040	00113	RN	C.8.3	--	--	--
			01040	00114	RN	C.8.2	--	--	--
			01040	00115	RN	C.8.2	--	--	--
			01040	00116	RN	C.4.3	--	--	--
			01040	00117	RN	C.4.3	--	--	--
			01040	00118	RN	C.4.3	--	--	--
			01040	00119	RN	C.4.3	--	--	--
			01040	00120	RN	C.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01040	00121	RN	C.4.3	--	--	--
			01040	00122	RN	C.4.3	--	--	--
			01040	00123	RN	C.4.3	--	--	--
			01040	00124	RN	C.4.3	--	--	--
			01040	00125	RN	C.4.3	--	--	--
			01040	00126	RN	C.4.3	C.8.2	C.8.5	--
			01040	00127	RN	C.4.3	--	--	--
			01040	00128	RN	C.4.3	--	--	--
			01040	00129	RN	C.4.3	--	--	--
			01040	00130	RN	C.8.3	--	--	--
			01040	00131	RN	C.5.3	C.5.11	--	--
			01040	00132	RN	C.8.4	--	--	--
			01040	00133	RN	C.6.6	--	--	--
			01040	00134	RN	C.6.6	--	--	--
			01040	00135	RN	C.6.6	--	--	--
			01040	00136	RN	C.6.6	--	--	--
			01040	00137	RN	C.6.6	--	--	--
			01040	00138	RN	C.6.6	--	--	--
			01040	00139	RN	C.5.11	--	--	--
			01040	00140	RN	C.5.11	--	--	--
			01040	00141	RN	C.5.11	--	--	--
			01040	00142	RN	C.5.11	--	--	--
			01040	00143	RN	C.5.11	--	--	--
			01040	00144	RN	C.5.11	--	--	--
			01040	00145	RN	C.5.11	--	--	--
			01040	00146	RN	C.5.11	--	--	--
			01040	00147	RN	C.5.11	--	--	--
			01040	00148	RN	C.5.11	--	--	--
			01040	00149	RN	C.5.11	--	--	--
			01040	00150	RN	C.5.11	--	--	--
			01040	00151	RN	C.5.11	--	--	--
			01040	00152	RN	C.5.11	--	--	--
			01040	00153	RN	C.5.11	--	--	--
			01040	00154	RN	C.5.11	--	--	--
			01040	00155	RN	C.5.11	--	--	--
			01040	00156	RN	C.5.11	--	--	--
			01040	00157	RN	C.5.11	--	--	--
			01040	00158	RN	C.5.11	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01040	00159	RN	C.5.11	--	--	--
			01040	00160	RN	C.5.11	--	--	--
			01040	00161	RN	C.5.11	--	--	--
			01040	00162	RN	C.5.11	--	--	--
			01040	00163	RN	C.5.11	--	--	--
			01040	00164	RN	C.5.11	--	--	--
			01040	00165	RN	C.5.11	C.8.5	--	--
			01040	00166	RN	C.5.3	--	--	--
			01040	00167	RN	C.5.3	--	--	--
			01040	00168	----------	C.3.4.1	--	--	--
			01040	00169	----------	C.3.4.1	--	--	--
			01040	00170	----------	C.3.4.1	--	--	--
	Davis, John G.	U.S. Nuclear Reg. Commission	01041	00014	----------	C.3.4.3	--	--	--
			01041	00015	----------	C.3.1.2	--	--	--
			01041	00018	----------	C.7.3	--	--	--
			01041	00214	----------	C.3.4.1	--	--	--
			01041	00215	----------	C.3.4.1	--	--	--
	Davis, John G.	U.S. Nuclear Reg. Commission	01042	00009	----------	C.8.3	C.3.4.2.3	--	--
			01042	00011	----------	C.3.4.3	--	--	--
			01042	00012	----------	C.3.1	C.2.7	--	--
			01042	00013	----------	C.2.4.1	--	--	--
			01042	00014	----------	C.3.1	C.2.7	--	--
			01042	00015	----------	C.4.1.3.1	C.2.7	--	--
			01042	00076	----------	C.2.4.1	C.7.3	--	--
			01042	00077	----------	C.2.4.1	C.7.3	--	--
			01042	00094	----------	C.2.4.1	C.7.3	--	--
			01042	00192	----------	C.2.8.3	C.6.5	--	--
			01042	00207	----------	C.3.4.1	--	--	--
	Davis, John G.	U.S. Nuclear Reg. Commission	01043	00001	DC	C.5.7	C.8.4	--	--
			01043	00002	DC	C.5.6	--	--	--
			01043	00003	DC	C.5.1	--	--	--
			01043	00004	DC	C.5.1	--	--	--
			01043	00005	DC	C.5.2	--	--	--
			01043	00006	DC	C.5.2	--	--	--
			01043	00007	DC	C.5.3	C.8.2	--	--
			01043	00008	DC	C.8.2	C.4.3	--	--
			01043	00009	DC	C.5.3	C.4.3	--	--
			01043	00010	DC	C.5.10	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01043	00011	DC	C.5.8	C.4.3	--	--
			01043	00012	DC	C.7.2	--	--	--
			01043	00013	----------	C.3.4.2.3	--	--	--
			01043	00014	----------	C.3.4.3	--	--	--
			01043	00015	DC	C.2.7	--	--	--
			01043	00016	DC	C.2.7	--	--	--
			01043	00017	DC	C.2.7	--	--	--
			01043	00018	DC	C.2.7	--	--	--
			01043	00019	DC	C.2.7	--	--	--
			01043	00020	----------	C.3.1.2	--	--	--
			01043	00021	DC	C.4.1.1.2	--	--	--
			01043	00022	DC	C.4.1.1.3	C.4.1.1.5	--	--
			01043	00023	DC	C.4.1.1.3	--	--	--
			01043	00024	DC	C.4.1.1.3	--	--	--
			01043	00025A	DC	C.4.1.1.3	--	--	--
			01043	00025B	DC	C.5.10	--	--	--
			01043	00026	DC	C.4.1.1.3	--	--	--
			01043	00027	DC	C.4.1.1.5	--	--	--
			01043	00028	DC	C.4.1.1.5	--	--	--
			01043	00029	DC	C.4.1.1.5	--	--	--
			01043	00030	DC	C.4.1.1.5	--	--	--
			01043	00031	DC	C.4.1.1.5	--	--	--
			01043	00032	DC	C.4.1.1.5	--	--	--
			01043	00033	DC	C.4.1.1.5	--	--	--
			01043	00034	DC	C.4.1.1.5	--	--	--
			01043	00035	DC	C.4.1.1.5	--	--	--
			01043	00036	DC	C.4.1.1.5	--	--	--
			01043	00037	DC	C.4.1.1.5	--	--	--
			01043	00038	DC	C.4.1.1.5	--	--	--
			01043	00039	DC	C.4.1.1.5	--	--	--
			01043	00040	DC	C.4.1.1.5	--	--	--
			01043	00041	DC	C.4.1.1.5	--	--	--
			01043	00042	DC	C.4.1.1.6	--	--	--
			01043	00043	DC	C.4.1.1.8	C.4.1.1.7	--	--
			01043	00044A	DC	C.4.1.1.7	--	--	--
			01043	00044B	----------	C.5.10	--	--	--
			01043	00045	DC	C.4.1.1.7	--	--	--
			01043	00046	DC	C.4.1.1.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01043	00047	DC	C.4.1.1.8	--	--	--
			01043	00048	DC	C.4.1.2.2	--	--	--
			01043	00049	DC	C.4.1.2.2	--	--	--
			01043	00050	DC	C.4.1.2.2	--	--	--
			01043	00051	DC	C.4.1.2.2	--	--	--
			01043	00052	DC	C.4.1.2.2	--	--	--
			01043	00053	DC	C.4.1.2.2	--	--	--
			01043	00054	DC	C.4.1.2.2	--	--	--
			01043	00055	DC	C.4.1.2.2	--	--	--
			01043	00056	DC	C.4.1.3.2	--	--	--
			01043	00057	DC	C.4.1.3.2	--	--	--
			01043	00058	DC	C.4.1.3.3	--	--	--
			01043	00059	DC	C.4.1.3.3	--	--	--
			01043	00060	DC	C.4.2.1	--	--	--
			01043	00061	DC	C.4.2.1	--	--	--
			01043	00062	DC	C.4.2.1	--	--	--
			01043	00063	DC	C.4.2.1	--	--	--
			01043	00064	DC	C.4.2.1	--	--	--
			01043	00065	DC	C.4.2.2	--	--	--
			01043	00066	DC	C.4.2.2	--	--	--
			01043	00067	DC	C.4.2.2	--	--	--
			01043	00068	DC	C.7.1.1.1	--	--	--
			01043	00069	DC	C.7.1.1.2	--	--	--
			01043	00070	DC	C.7.1.1.2	--	--	--
			01043	00071	DC	C.7.1.1.2	--	--	--
			01043	00072	DC	C.7.1.1.2	--	--	--
			01043	00073	DC	C.7.1.1.3	--	--	--
			01043	00074	DC	C.7.1.1.3	--	--	--
			01043	00075	DC	C.7.1.1.3	--	--	--
			01043	00076	DC	C.7.1.1.3	--	--	--
			01043	00077	DC	C.7.1.1.8	--	--	--
			01043	00078	DC	C.7.1.1.8	--	--	--
			01043	00079	DC	C.4.2.1	--	--	--
			01043	00080	DC	C.7.1.1.8	--	--	--
			01043	00081	DC	C.7.1.1.5	--	--	--
			01043	00082	DC	C.7.1.2	--	--	--
			01043	00083	DC	C.4.2.2	--	--	--
			01043	00084	DC	C.7.1.1.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01043	00085	DC	C.7.1.1.8	--	--	--
			01043	00086	DC	C.4.3	--	--	--
			01043	00087	DC	C.4.3	--	--	--
			01043	00088	DC	C.4.3	--	--	--
			01043	00089	DC	C.7.2.2	--	--	--
			01043	00090	DC	C.4.3	C.7.2.3	--	--
			01043	00091	DC	C.4.3	--	--	--
			01043	00092	DC	C.4.3	--	--	--
			01043	00093	DC	C.4.3	C.8.2	--	--
			01043	00094	DC	C.5.3	--	--	--
			01043	00095	DC	C.5.7	--	--	--
			01043	00096	DC	C.7.2.3	--	--	--
			01043	00097	DC	C.4.1.3.3	C.7.2	--	--
			01043	00098	DC	C.4.3	--	--	--
			01043	00099	DC	C.8.3	C.5.11	--	--
			01043	00100	DC	C.7.2.3	--	--	--
			01043	00101	DC	C.7.2.3	--	--	--
			01043	00102	DC	C.7.3	--	--	--
			01043	00103	DC	C.7.3	--	--	--
			01043	00104	DC	C.7.3	--	--	--
			01043	00105	DC	C.2.4.1	--	--	--
			01043	00106	DC	C.7.3	--	--	--
			01043	00107	DC	C.7.3	--	--	--
			01043	00108	DC	C.7.3	--	--	--
			01043	00109	DC	C.7.3	--	--	--
			01043	00110	DC	C.7.4	--	--	--
			01043	00111	DC	C.7.4.5	--	--	--
			01043	00112	DC	C.4.3	--	--	--
			01043	00113	DC	C.7.3	C.7.2.2	--	--
			01043	00114	DC	C.5.9	--	--	--
			01043	00115	DC	C.5.1	--	--	--
			01043	00116	DC	C.5.1	--	--	--
			01043	00117	DC	C.5.1	--	--	--
			01043	00118	DC	C.5.1	--	--	--
			01043	00119	DC	C.5.1	--	--	--
			01043	00120	DC	C.5.1	--	--	--
			01043	00121	DC	C.5.1	--	--	--
			01043	00122	DC	C.5.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01043	00123	DC	C.5.1	--	--	--
			01043	00124	DC	C.5.1	--	--	--
			01043	00125	DC	C.5.2	--	--	--
			01043	00126	DC	C.5.2	--	--	--
			01043	00127	DC	C.5.2	--	--	--
			01043	00128	DC	C.5.2	--	--	--
			01043	00129	DC	C.5.2	--	--	--
			01043	00130	DC	C.5.2	--	--	--
			01043	00131	DC	C.5.2	--	--	--
			01043	00132	DC	C.5.2	--	--	--
			01043	00133	DC	C.5.2	--	--	--
			01043	00134	DC	C.5.2	--	--	--
			01043	00135	DC	C.5.2	--	--	--
			01043	00136	DC	C.5.2	--	--	--
			01043	00137	DC	C.5.2	--	--	--
			01043	00138	DC	C.5.3	--	--	--
			01043	00139	DC	C.5.3	--	--	--
			01043	00140	DC	C.5.3	--	--	--
			01043	00141	DC	C.5.3	--	--	--
			01043	00142	DC	C.4.3	--	--	--
			01043	00143	DC	C.5.3	--	--	--
			01043	00144	DC	C.8.5	--	--	--
			01043	00145	DC	C.5.3	--	--	--
			01043	00146	DC	C.5.3	--	--	--
			01043	00147	DC	C.5.3	--	--	--
			01043	00148	DC	C.5.3	--	--	--
			01043	00149	DC	C.5.4	--	--	--
			01043	00150	DC	C.5.5	--	--	--
			01043	00151	DC	C.5.6	--	--	--
			01043	00152	DC	C.5.6	--	--	--
			01043	00153	DC	C.5.6	--	--	--
			01043	00154	DC	C.5.7	--	--	--
			01043	00155	DC	C.5.7	--	--	--
			01043	00156	DC	C.5.7	--	--	--
			01043	00157	DC	C.5.7	--	--	--
			01043	00158	DC	C.5.7	--	--	--
			01043	00159	DC	C.4.3	--	--	--
			01043	00160	DC	C.5.8	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01043	00161	DC	C.5.8	--	--	--
			01043	00162	DC	C.8.2	--	--	--
			01043	00163	DC	C.4.3	--	--	--
			01043	00164	DC	C.4.3	--	--	--
			01043	00165	DC	C.4.3	--	--	--
			01043	00166	DC	C.4.3	--	--	--
			01043	00167	DC	C.4.3	--	--	--
			01043	00168	DC	C.4.3	--	--	--
			01043	00169	DC	C.8.2	--	--	--
			01043	00170	DC	C.8.3	--	--	--
			01043	00171	DC	C.8.4	--	--	--
			01043	00172	DC	C.8.4	--	--	--
			01043	00173	DC	C.8.4	--	--	--
			01043	00174	DC	C.6.6	--	--	--
			01043	00175	DC	C.6.6	--	--	--
			01043	00176	DC	C.6.6	--	--	--
			01043	00177	DC	C.6.6	--	--	--
			01043	00178	DC	C.6.6	--	--	--
			01043	00179	DC	C.6.6	--	--	--
			01043	00180	DC	C.6.6	--	--	--
			01043	00181	DC	C.5.11	--	--	--
			01043	00182	DC	C.5.11	--	--	--
			01043	00183	DC	C.5.11	--	--	--
			01043	00184	DC	C.5.11	--	--	--
			01043	00185	DC	C.5.11	--	--	--
			01043	00186	DC	C.5.11	--	--	--
			01043	00187	DC	C.5.11	--	--	--
			01043	00189	DC	C.5.11	--	--	--
			01043	00190	DC	C.5.11	--	--	--
			01043	00191	DC	C.5.11	--	--	--
			01043	00192	DC	C.5.11	--	--	--
			01043	00193	DC	C.5.11	--	--	--
			01043	00194	DC	C.5.11	--	--	--
			01043	00195	DC	C.5.11	--	--	--
			01043	00196	DC	C.5.11	--	--	--
			01043	00197	DC	C.5.11	--	--	--
			01043	00198	DC	C.5.11	--	--	--
			01043	00199	DC	C.5.11	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01043	00200	DC	C.5.11	--	--	--
			01043	00201	DC	C.5.11	--	--	--
			01043	00202	DC	C.5.11	--	--	--
			01043	00203	DC	C.5.11	--	--	--
			01043	00204	DC	C.5.11	--	--	--
			01043	00205	DC	C.5.11	--	--	--
			01043	00206	DC	C.5.11	--	--	--
			01043	00207	DC	C.5.11	--	--	--
			01043	00208	DC	C.5.11	--	--	--
			01043	00209	DC	C.5.11	--	--	--
			01043	00210	DC	C.5.11	--	--	--
			01043	00211	DC	C.5.11	--	--	--
			01043	00212	DC	C.5.11	--	--	--
			01043	00213	DC	C.5.11	--	--	--
			01043	00214	DC	C.5.11	--	--	--
			01043	00215	DC	C.5.11	--	--	--
			01043	00216	DC	C.5.11	--	--	--
			01043	00217	DC	C.4.3	--	--	--
			01043	00218	----------	C.3.4.1	C.5.11	--	--
			01043	00219	----------	C.3.4.1	--	--	--
	Davis, John G.	U.S. Nuclear Reg. Commission	01044	00001	DS	C.5.1	C.5.6	C.8.2	--
			01044	00002	DS	C.5.6	--	--	--
			01044	00003	DS	C.5.1	--	--	--
			01044	00004	DS	C.5.2	--	--	--
			01044	00005	DS	C.5.2	--	--	--
			01044	00006	DS	C.5.3	C.8.2	--	--
			01044	00007	DS	C.4.3	--	--	--
			01044	00008	DS	C.5.3	C.8.2	--	--
			01044	00009	DS	C.5.10	--	--	--
			01044	00010	DS	C.5.9	C.7.2	--	--
			01044	00011	----------	C.3.4.2.3	--	--	--
			01044	00012	----------	C.3.4.3	--	--	--
			01044	00013	DS	C.4.3	--	--	--
			01044	00014	----------	C.7.3	--	--	--
			01044	00015	----------	C.2.7	--	--	--
			01044	00016	DS	C.4.1.1	--	--	--
			01044	00017	DS	C.4.1.1	--	--	--
			01044	00018	DS	C.4.1.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01044	00019	DS	C.4.1.1.2	--	--	--
			01044	00020	DS	C.5.4	--	--	--
			01044	00021A	DS	C.4.1.1.1	--	--	--
			01044	00021B	DS	C.4.1.1.1	--	--	--
			01044	00022	DS	C.4.1.1.3	--	--	--
			01044	00023	DS	C.4.1.1.3	--	--	--
			01044	00024	DS	C.4.1.1.3	--	--	--
			01044	00025	DS	C.4.1.1.2	--	--	--
			01044	00026	DS	C.4.1.1.3	--	--	--
			01044	00027	DS	C.4.1.1.5	--	--	--
			01044	00028	DS	C.4.1.1.5	--	--	--
			01044	00029	DS	C.4.1.1.5	--	--	--
			01044	00030	DS	C.4.1.1.5	--	--	--
			01044	00031	DS	C.4.1.1.5	--	--	--
			01044	00032	DS	C.4.1.1.5	--	--	--
			01044	00033	DS	C.4.1.1.5	--	--	--
			01044	00034	DS	C.4.1.1.5	--	--	--
			01044	00035	DS	C.4.1.1.6	--	--	--
			01044	00036	DS	C.4.1.1.6	--	--	--
			01044	00037	DS	C.4.1.1.6	--	--	--
			01044	00038	DS	C.4.1.1.3	--	--	--
			01044	00039	DS	C.4.1.1.7	--	--	--
			01044	00040	DS	C.4.1.1.7	--	--	--
			01044	00041	DS	C.4.1.1.7	--	--	--
			01044	00042	DS	C.4.1.1.8	--	--	--
			01044	00043	DS	C.4.1.1.8	--	--	--
			01044	00044	DS	C.4.1.2.1	--	--	--
			01044	00045	DS	C.4.1.2.2	--	--	--
			01044	00046	DS	C.4.1.2.2	--	--	--
			01044	00047	DS	C.4.1.2.2	--	--	--
			01044	00048	DS	C.4.1.2.2	--	--	--
			01044	00049	DS	C.4.1.2.2	--	--	--
			01044	00050	DS	C.4.1.2.2	--	--	--
			01044	00051	DS	C.4.1.2.2	--	--	--
			01044	00052	DS	C.4.1.2.2	--	--	--
			01044	00053	DS	C.4.1.2.2	--	--	--
			01044	00054	DS	C.4.1.2.2	--	--	--
			01044	00055	DS	C.4.1.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01044	00056	DS	C.4.1.2.2	--	--	--
			01044	00057	DS	C.4.1.2.2	--	--	--
			01044	00058	DS	C.4.1.2.2	--	--	--
			01044	00059	DS	C.4.1.2.2	--	--	--
			01044	00060	DS	C.4.1.2.2	--	--	--
			01044	00061	DS	C.4.1.2.2	--	--	--
			01044	00062	DS	C.4.1.2.2	--	--	--
			01044	00063	DS	C.4.1.2.2	--	--	--
			01044	00064	DS	C.4.1.2.7	--	--	--
			01044	00065	DS	C.4.1.2.2	--	--	--
			01044	00066	DS	C.4.1.3.2	--	--	--
			01044	00067	DS	C.4.1.3.3	--	--	--
			01044	00068	DS	C.4.1.3.3	--	--	--
			01044	00069	DS	C.4.2.1	--	--	--
			01044	00070	DS	C.4.2.2	--	--	--
			01044	00071	DS	C.4.2.2	--	--	--
			01044	00072	DS	C.7.1.1.1	--	--	--
			01044	00073	DS	C.7.1.1.2	--	--	--
			01044	00074	DS	C.7.1.1.2	--	--	--
			01044	00075	DS	C.7.1.1.2	--	--	--
			01044	00076	DS	C.7.1.1.3	--	--	--
			01044	00077	DS	C.7.1.1.8	--	--	--
			01044	00078	DS	C.7.1.1.5	--	--	--
			01044	00079	DS	C.4.2.2	--	--	--
			01044	00080	DS	C.4.3	C.5.11	--	--
			01044	00081	DS	C.4.3	--	--	--
			01044	00082	DS	C.4.3	--	--	--
			01044	00083	DS	C.5.3	--	--	--
			01044	00084	DS	C.4.3	C.5.7	--	--
			01044	00085	DS	C.7.2.8	--	--	--
			01044	00086	DS	C.7.2.8	--	--	--
			01044	00087	DS	C.7.2.1	--	--	--
			01044	00088	DS	C.7.2.2	--	--	--
			01044	00089	DS	C.7.2.3	--	--	--
			01044	00090	DS	C.7.2.3	--	--	--
			01044	00091	DS	C.7.2.5	--	--	--
			01044	00092	DS	C.7.3	--	--	--
			01044	00093	DS	C.7.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01044	00094	DS	C.7.3	--	--	--
			01044	00095	DS	C.7.3	--	--	--
			01044	00096	DS	C.7.3	--	--	--
			01044	00097	DS	C.7.3	--	--	--
			01044	00098	DS	C.7.4.1	--	--	--
			01044	00099	DS	C.7.2	C.4.3	--	--
			01044	00100	DS	C.7.4.2	--	--	--
			01044	00101	DS	C.5.9	--	--	--
			01044	00102	DS	C.5.9	--	--	--
			01044	00103	DS	C.5.9	--	--	--
			01044	00104	DS	C.6.3	--	--	--
			01044	00105	DS	C.6.3	--	--	--
			01044	00106	DS	C.6.4	--	--	--
			01044	00107	DS	C.7.1.1.3	C.7.2.3	--	--
			01044	00108	DS	C.7.2	--	--	--
			01044	00109	DS	C.7.3	--	--	--
			01044	00110	DS	C.6.3	--	--	--
			01044	00111	DS	C.5.11	--	--	--
			01044	00112	DS	C.5.11	C.7.1.1.8	--	--
			01044	00113	DS	C.5.1	--	--	--
			01044	00114	DS	C.5.1	--	--	--
			01044	00115	DS	C.5.1	--	--	--
			01044	00116	DS	C.5.1	--	--	--
			01044	00117	DS	C.5.1	--	--	--
			01044	00118	DS	C.5.1	C.5.3	--	--
			01044	00119	DS	C.5.1	--	--	--
			01044	00120	DS	C.5.1	--	--	--
			01044	00121	DS	C.5.2	--	--	--
			01044	00122	DS	C.5.2	--	--	--
			01044	00123	DS	C.5.2	--	--	--
			01044	00124	DS	C.5.2	--	--	--
			01044	00125	DS	C.5.2	--	--	--
			01044	00126	DS	C.5.2	--	--	--
			01044	00127	DS	C.5.2	--	--	--
			01044	00128	DS	C.5.3	--	--	--
			01044	00129	DS	C.5.3	--	--	--
			01044	00130	DS	C.5.3	--	--	--
			01044	00131	DS	C.5.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01044	00132	DS	C.5.3	--	--	--
			01044	00133	DS	C.5.3	--	--	--
			01044	00134	DS	C.5.3	--	--	--
			01044	00135	DS	C.5.3	--	--	--
			01044	00136	DS	C.5.3	--	--	--
			01044	00137	DS	C.5.4	--	--	--
			01044	00138	DS	C.5.4	--	--	--
			01044	00139	DS	C.5.5	--	--	--
			01044	00140	DS	C.5.7	--	--	--
			01044	00141	DS	C.5.7	--	--	--
			01044	00142	DS	C.5.8	--	--	--
			01044	00143	DS	C.8.2	--	--	--
			01044	00144	DS	C.4.3	--	--	--
			01044	00145	DS	C.4.3	--	--	--
			01044	00146	DS	C.8.2	--	--	--
			01044	00147	DS	C.4.3	--	--	--
			01044	00148	DS	C.8.2	--	--	--
			01044	00149	DS	C.4.3	--	--	--
			01044	00150	DS	C.4.3	--	--	--
			01044	00151	DS	C.8.2	--	--	--
			01044	00152	DS	C.8.3	--	--	--
			01044	00153	DS	C.8.3	--	--	--
			01044	00154	DS	C.8.4	--	--	--
			01044	00155	DS	C.8.4	--	--	--
			01044	00156	DS	C.8.4	--	--	--
			01044	00157	DS	C.6.6	--	--	--
			01044	00158	DS	C.6.6	--	--	--
			01044	00159	DS	C.6.6	--	--	--
			01044	00160	DS	C.6.6	--	--	--
			01044	00161	DS	C.6.6	--	--	--
			01044	00162	DS	C.6.6	--	--	--
			01044	00163	DS	C.6.3	--	--	--
			01044	00164	DS	C.6.6	--	--	--
			01044	00165	DS	C.6.6	--	--	--
			01044	00166	DS	C.5.11	--	--	--
			01044	00167	DS	C.5.11	--	--	--
			01044	00168	DS	C.5.11	--	--	--
			01044	00169	DS	C.5.11	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01044	00170	DS	C.5.11	--	--	--
			01044	00171	DS	C.5.11	--	--	--
			01044	00172	DS	C.5.11	--	--	--
			01044	00173	DS	C.5.11	--	--	--
			01044	00174	DS	C.5.11	--	--	--
			01044	00175	DS	C.5.11	--	--	--
			01044	00176	DS	C.5.11	--	--	--
			01044	00177	DS	C.5.11	--	--	--
			01044	00178	DS	C.5.11	--	--	--
			01044	00179	DS	C.5.11	--	--	--
			01044	00180	DS	C.5.11	--	--	--
			01044	00181	DS	C.5.11	--	--	--
			01044	00182	DS	C.5.11	--	--	--
			01044	00183	DS	C.5.11	--	--	--
			01044	00184	DS	C.5.11	--	--	--
			01044	00185	DS	C.5.11	--	--	--
			01044	00186	DS	C.5.11	--	--	--
			01044	00187	DS	C.5.11	--	--	--
			01044	00188	DS	C.5.11	--	--	--
			01044	00189	DS	C.5.11	--	--	--
			01044	00190	DS	C.5.11	--	--	--
			01044	00191	DS	C.5.11	--	--	--
			01044	00192	DS	C.5.11	--	--	--
			01044	00193	DS	C.5.11	--	--	--
			01044	00194	DS	C.5.11	--	--	--
			01044	00195	DS	C.5.11	--	--	--
			01044	00196	DS	C.5.11	--	--	--
			01044	00197	DS	C.5.11	--	--	--
			01044	00198	DS	C.5.11	--	--	--
			01044	00199	DS	C.8.2	--	--	--
			01044	00200	----------	C.3.4.1	--	--	--
			01044	00201	----------	C.3.4.1	--	--	--
	Davis, John G.	U.S. Nuclear Reg. Commission	01036	00157	----------	C.3.4.2.3	--	--	--
			01036	00158	----------	C.3.4.3	--	--	--
	Finamore, Barbara	Natural Res. Defense Council	01244	00001	----------	C.2.6.1	--	--	--
			01244	00002	----------	C.2.1.1	--	--	--
			01244	00003	----------	C.2.6.1	--	--	--
			01244	00004	----------	C.2.6.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01244	00005	----------	C.2.6.1	--	--	--
			01244	00006	----------	C.2.6.1	--	--	--
			01244	00007	----------	C.2.6.1	--	--	--
			01244	00008	----------	C.2.4.1	--	--	--
			01244	00009	----------	C.2.4.1	--	--	--
			01244	00010	----------	C.2.4.1	--	--	--
			01244	00011	----------	C.2.4.1	--	--	--
			01244	00012	----------	C.2.4.1	--	--	--
			01244	00013	----------	C.2.4.1	--	--	--
			01244	00014	----------	C.2.6.1	--	--	--
			01244	00015	----------	C.2.7	--	--	--
			01244	00016	----------	C.2.1.1	--	--	--
	Garrison, Roy F.	U.S. Dept. of Energy	01677	00001	----------	C.2.8.2	--	--	--
	Hirsch, Allan	U.S. Env. Protection Agency	01397	00001	----------	C.3.4.3	--	--	--
			01397	00002	----------	C.3.4.3	--	--	--
			01397	00003	----------	C.3.4.1	--	--	--
			01397	00004	----------	C.3.4.1	--	--	--
			01397	00005	----------	C.3.4.3	--	--	--
			01397	00006	----------	C.3.4.3	--	--	--
			01397	00007	----------	C.7.3	C.2.4.1	--	--
			01397	00008	----------	C.2.7	--	--	--
			01397	00009	----------	C.2.7	--	--	--
			01397	00010	DC	C.3.1.3	--	--	--
			01397	00011	DC	C.4.1.3.3	C.7.2.3	C.7.1.1.3	--
			01397	00012	DC	C.4.1.2.2	C.4.1.2.1	C.7.2.8	--
			01397	00013	DC	C.4.1.3.4	C.7.1.1.5	C.7.2.5	--
			01397	00014	DC	C.7.1.1.4	C.7.2.4	--	--
			01397	00015	DC	C.7.1.1.8	C.7.1.1.3	--	--
			01397	00016	DC	C.4.2.2	C.7.3	--	--
			01397	00017	DC	C.4.1.3	C.7.1.1	--	--
			01397	00018	DC	C.7.2.4	--	--	--
			01397	00019	DC	C.7.2.3	--	--	--
			01397	00020	DC	C.7.2.4	C.7.1.1.4	--	--
			01397	00021	DC	C.7.1.1.8	C.7.2.8	--	--
			01397	00022	DC	C.7.2.8	C.7.2.2	--	--
			01397	00023	DC	C.4.3	--	--	--
			01397	00024	DC	C.7.2.3	C.7.2.4	--	--
			01397	00025	DC	C.7.1.1.5	C.7.2.5	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01397	00026	DC	C.7.1.1.4	C.7.2.4	--	--
			01397	00027	DC	C.7.1.1.8	C.7.1.1.2	C.7.2.2	C.7.2.8
			01397	00028	DC	C.4.2.2	--	--	--
			01397	00029	DC	C.4.1.2.2	--	--	--
			01397	00030	DC	C.3.3	C.8.2	--	--
			01397	00031	DC	C.4.1.1.5	--	--	--
			01397	00032	DC	C.4.1.1.5	--	--	--
			01397	00033	DC	C.4.1.1.5	--	--	--
			01397	00034	DC	C.4.1.1.5	--	--	--
			01397	00035	DC	C.4.1.1.6	--	--	--
			01397	00036	DC	C.4.1.1.7	--	--	--
			01397	00037	DC	C.4.1.1.7	--	--	--
			01397	00038	DC	C.4.1.2.2	--	--	--
			01397	00039	DC	C.4.1.2.2	--	--	--
			01397	00040	DC	C.4.1.2.2	--	--	--
			01397	00041	DC	C.4.1.2.2	--	--	--
			01397	00042	DC	C.4.1.2.2	--	--	--
			01397	00043	DC	C.4.1.2.2	--	--	--
			01397	00044	DC	C.4.2.1	--	--	--
			01397	00045	DC	C.4.2.1	--	--	--
			01397	00046	DC	C.4.2.1	--	--	--
			01397	00047	DC	C.4.2.1	--	--	--
			01397	00048	DC	C.4.2.1	--	--	--
			01397	00049	DC	C.4.2.1	--	--	--
			01397	00050	DC	C.4.2.1	--	--	--
			01397	00051	DC	C.4.2.3	--	--	--
			01397	00052	DC	C.5.1	--	--	--
			01397	00053	DC	C.5.3	--	--	--
			01397	00054	DC	C.5.1	--	--	--
			01397	00055	DC	C.5.1	--	--	--
			01397	00056	DC	C.5.1	--	--	--
			01397	00057	DC	C.5.1	--	--	--
			01397	00058	DC	C.5.11	--	--	--
			01397	00059	DC	C.5.6	--	--	--
			01397	00060	DC	C.4.2.2	--	--	--
			01397	00061	DC	C.7.3	--	--	--
			01397	00062	DC	C.3.1.3	C.4.3	C.4.2.2	--
			01397	00063	DC	C.4.2.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01397	00064	DC	C.5.9	--	--	--
			01397	00065	DC	C.5.1	--	--	--
			01397	00066A	DC	C.5.11	--	--	--
			01397	00066B	DC	C.4.2.2	--	--	--
			01397	00066C	DC	C.3.1.3	--	--	--
			01397	00067	DC	C.4.1.1.8	--	--	--
			01397	00068	----------	C.3.4.3	--	--	--
			01397	00068A	DC	C.4.1.2.2	--	--	--
			01397	00068B	DC	C.5.1	--	--	--
			01397	00068C	DC	C.7.1.1	--	--	--
			01397	00068D	DC	C.5.1	--	--	--
			01397	00069	DS	C.3.1.3	--	--	--
			01397	00070	DS	C.4.1.2	--	--	--
			01397	00071	DS	C.4.3	--	--	--
			01397	00072	DS	C.7.2.8	C.7.1.1.8	--	--
			01397	00073	DS	C.7.2.8	C.7.2.7	--	--
			01397	00074	DS	C.5.3	--	--	--
			01397	00075	DS	C.4.1.1.3	C.5.6	--	--
			01397	00076A	DS	C.4.1.1.5	C.4.3	--	--
			01397	00076B	DS	C.5.11	--	--	--
			01397	00077	DS	C.4.3	C.4.1.2.1	--	--
			01397	00088	RN	C.4.1.1	--	--	--
			01397	00089	RN	C.4.1.1.5	--	--	--
			01397	00090	RN	C.4.1.2.2	C.5.1	--	--
			01397	00091	RN	C.5.8	--	--	--
			01397	00092A	RN	C.7.2	--	--	--
			01397	00092B	RN	C.4.1.3.4	C.7.1.1.5	C.7.2.5	--
			01397	00093	----------	C.3.1.2	--	--	--
			01397	00097	----------	C.2.7.1	C.4.1.3	--	--
	Hodel, Secretary Donald	U.S. Dept of Energy	01716	00001	----------	C.2.8.2	--	--	--
	Kearney, John J.	Edison Electric Institute	01275	00001	----------	C.2.2.1	--	--	--
			01275	00002	----------	C.2.7	--	--	--
			01275	00003	----------	C.2.7	--	--	--
			01275	00004	----------	C.3.3.2	--	--	--
			01275	00005	----------	C.3.4.3	--	--	--
			01275	00006	----------	C.2.7	--	--	--
			01275	00007	----------	C.3.4.3	--	--	--
			01275	00008	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01275	00009	DC,DS,RN	C.6.6	C.5.11	C.5.11	C.3.4.4
			01275	00010	DS	C.5.1	C.5.11	C.3.4.4	--
			01275	00011	DS	C.7.4.1	C.6.1	C.2.7	--
			01275	00012	DC,DS,RN	C.4.3	C.2.8	--	--
			01275	000121	----------	C.3.4.3	--	--	--
			01275	00013	DC,DS,RN	C.4.2.2	C.4.3	--	--
			01275	00014	DC,DS,RN	C.4.1.1.6	--	--	--
			01275	00015	DC	C.8.2	C.2.7	--	--
			01275	00016	----------	C.2.7	--	--	--
			01275	00017	----------	C.2.1.1	--	--	--
			01275	00026	----------	C.3.4.4	--	--	--
			01275	00034	----------	C.2.7	--	--	--
			01275	00038	----------	C.2.7	--	--	--
			01275	00049	----------	C.2.7	--	--	--
			01275	00051	----------	C.2.7	--	--	--
			01275	00052	DC	C.7.4.1	C.4.1.5.1	--	--
			01275	00053	DC	C.4.3	--	--	--
			01275	00054	DC	C.4.1	--	--	--
			01275	00055	DC	C.4.1	--	--	--
			01275	00056	DC	C.7.2.3	C.4.1.3.3	--	--
			01275	00057	DC	C.5.1	C.5.11	--	--
			01275	00058	DC	C.6.1	C.6.3	--	--
			01275	00059	DC	C.7.2	--	--	--
			01275	00060	DC	C.4.1.1	C.4.1.2.2	--	--
			01275	00061	DC	C.4.1.1	C.4.1.2.1	--	--
			01275	00062	DC	C.5.1	C.4.1.1	C.4.1.2.2	--
			01275	00063	DC	C.4.1.1.3	--	--	--
			01275	00064	DC	C.5.6	C.5.1	C.4.1.2.2	--
			01275	00065	DC	C.5.6	--	--	--
			01275	00066	DC	C.4.1.1.3	C.5.1	C.8.2	--
			01275	00067	DC	C.5.3	--	--	--
			01275	00068	DC	C.5.4	--	--	--
			01275	00069	DC	C.5.7	C.8.4	--	--
			01275	00070	DC	C.5.7	C.4.1.1.5	--	--
			01275	00071	DC	C.5.7	--	--	--
			01275	00072	DS	C.3.1.3	--	--	--
			01275	00073	----------	C.2.7	--	--	--
			01275	00074	DS	C.5.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01275	00075	----------	C.2.7	--	--	--
			01275	00076	DS	C.7.2	--	--	--
			01275	00077	DS	C.5.1	--	--	--
			01275	00078	DS	C.5.1	C.5.11	C.5.4	--
			01275	00079	DS	C.4.1.1.3	--	--	--
			01275	00080	DS	C.5.4	C.5.5	C.5.7	C.5.6
			01275	00081	DS	C.5.6	--	--	--
			01275	00082	DS	C.8.4	C.4.1.1.5	--	--
			01275	00083	DS	C.8.4	--	--	--
			01275	00084	DS	C.4.1.1.5	--	--	--
			01275	00085	DS	C.8.4	--	--	--
			01275	00086	DS	C.5.8	C.4.1.1.8	--	--
			01275	00087	RN	C.4.1.1.6	C.4.3	--	--
			01275	00088	RN	C.4.1	--	--	--
			01275	00089	RN	C.5.1	C.6.3	--	--
			01275	00090	RN	C.4.1.1	C.4.1.2	C.5.1	--
			01275	00091	RN	C.5.4	--	--	--
			01275	00092	RN	C.5.4	--	--	--
			01275	00094	RN	C.8.4	--	--	--
			01275	00095	RN	C.8.4	--	--	--
			01275	00096	----------	C.2.7	--	--	--
			01275	00097	----------	C.4.3	C.4.2.2	--	--
			01275	00098	DS,RN,DC	C.4.3	C.4.3	--	--
			01275	00099	DC,RN,DS	C.7.1.1	C.7.2.3	C.7.2.3	C.7.1.1
			01275	00100	DS,DC	C.7.2.3	C.7.1.1	--	--
			01275	00101	DS,RN	C.7.2.3	C.7.1.1.3	C.7.1.1	--
			01275	00102	DS,DC,RN	C.4.3	C.4.2.2	C.3.7	C.7.1
			01275	00103	DC,RN,DS	C.4.2.2	C.3.7	C.7.1	--
			01275	00104	DC,RN,DS	C.4.2.2	C.7.1	C.3.7	--
			01275	00105	DC,RN,DS	C.4.3	--	--	--
			01275	00106	DC,RN,DS	C.8.2	C.6.5	--	--
			01275	00107	DC,RN,DS	C.5.7	C.5.7	--	--
			01275	00108	DS	C.6.6	C.6.5	--	--
			01275	00110	DC,RN,DS	C.5.11	C.5.11	--	--
			01275	00111	DC,RN,DS	C.4.3	C.4.3	--	--
			01275	00112	DC,RN,DS	C.5.11	C.5.11	C.5.11	--
			01275	00113	DC,RN,DS	C.5.11	--	--	--
			01275	00114	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01275	00115	----------	C.2.7	--	--	--
			01275	00116	----------	C.2.8.2	--	--	--
			01275	00117	----------	C.3.4.1	--	--	--
			01275	00118	----------	C.3.4.4	--	--	--
			01275	00119	----------	C.3.4.3	--	--	--
			01275	00120	----------	C.3.4.3	--	--	--
			01275	00121	----------	C.3.4.3	--	--	--
			01275	00122	DC,RN,DS	C.4.3	--	--	--
			01275	00123	DC,RN,DS	C.7.4	--	--	--
			01275	00124	DC,RN,DS	C.4.3	--	--	--
			01275	00125	DS	C.4.3	C.5.11	--	--
			01275	00127	DS,DC,RN	C.5.7	C.6.1	--	--
			01275	00128	DS,DC,RN	C.8.4	C.8.4	--	--
			01275	00129	----------	C.2.7	--	C.5.7	--
	Kearns, Artis		01440	00003	----------	C.2.4.1	--	--	--
			01440	00004A	----------	C.2.8	--	--	--
			01440	00004B	----------	C.2.4.1	--	--	--
	Magnees, III, Col. Thomas H.	Dept. of Army Corps of Engineers	02697	00007	RN	C.4.2.3	--	--	--
			02697	00023	----------	C.2.4.1	--	--	--
			02697	00026	RN	C.6.4	C.7.1.1.1	C.7.2.1	--
			02697	00027	RN	C.6.4	C.7.1.1.1	C.7.2.1	--
			02697	00028	RN	C.4.3	--	--	--
	Martin, Terri	National Parks & Cons. Assoc.	02195	00001	----------	C.3.4.4	--	--	--
			02195	00002	DC	C.7.2	--	--	--
			02195	00003	DC	C.7.4.2	--	--	--
			02195	00004	DC	C.7.2.5	--	--	--
			02195	00005	DC	C.7.2.5	--	--	--
			02195	00006	DC	C.7.2.5	--	--	--
			02195	00007	DC	C.7.2.5	--	--	--
			02195	00008	DC	C.7.4	--	--	--
			02195	00009	----------	C.3.4.4	--	--	--
	Parker, Frank L.	National Research Council	02669	00001	----------	C.3.4.3	--	--	--
			02669	00002	----------	C.3.4.3	--	--	--
			02669	00003	----------	C.3.4.3	--	--	--
			02669	00004	----------	C.3.4.3	--	--	--
			02669	00005	----------	C.3.4.3	--	--	--
			02669	00006	----------	C.3.4.3	--	--	--
			02669	00007	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			02669	00008	----------	C.3.4.3	--	--	--
			02669	00009	----------	C.3.4.3	--	--	--
			02669	00010	----------	C.3.4.3	--	--	--
			02669	00011	----------	C.3.4.3	--	--	--
			02669	00012	----------	C.3.4.3	--	--	--
			02669	00013	----------	C.3.4.3	--	--	--
			02669	00014	----------	C.3.4.3	--	--	--
			02669	00015	----------	C.3.4.4	--	--	--
			02669	00016	----------	C.3.4.3	--	--	--
			02669	00017	----------	C.3.4.3	--	--	--
	Santman, L.D.	U.S. Dept. of Transportation	01568	00002	----------	C.2.4.1	--	--	--
			01568	00003	----------	C.2.4.1	--	--	--
			01568	00004	----------	C.2.4.1	--	--	--
			01568	00005	----------	C.2.4.1	--	--	--
			01568	00006	----------	C.2.4.1	--	--	--
			01568	00007	----------	C.2.4.1	--	--	--
			01568	00008	----------	C.2.4.1	--	--	--
			01568	00009	----------	C.2.4.1	--	--	--
			01568	00010	----------	C.2.4.1	--	--	--
			01568	00011	----------	C.2.4.1	--	--	--
			01568	00012	----------	C.2.4.1	--	--	--
			01568	00013	----------	C.2.4.1	--	--	--
			01568	00014	----------	C.2.4.1	--	--	--
			01568	00015	----------	C.2.4.1	--	--	--
			01568	00016	----------	C.2.4.1	--	--	--
			01568	00017	----------	C.2.4.1	--	--	--
			01568	00018	----------	C.2.4.1	--	--	--
			01568	00022	----------	C.2.7	--	--	--
			01568	00023	DC	C.3.3.2	--	--	--
			01568	00024	DS	C.3.3.2	--	--	--
			01568	00025	DS	C.7.3	--	--	--
	Severance, Owen	Natl Parks & Conservation Assn.	01276	00001	DC	C.3.1.2	C.3.1.3	--	--
			01276	00002	----------	C.3.1.3	--	--	--
			01276	00003	DC	C.3.1.3	--	--	--
			01276	00004	DC	C.7.2	--	--	--
			01276	00005	DC	C.7.2.5	--	--	--
			01276	00006	DC	C.7.2.4	--	--	--
			01276	00007	DC	C.7.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01276	00008	DC	C.3.1.3	--	--	--
			01276	00009	DC	C.7.2.4	C.7.2.5	--	--
			01276	00010	DC	C.3.1.3	--	--	--
			01276	00011	DC	C.7.4	--	--	--
			01276	00012	DC	C.7.2.5	C.7.1.1.5	--	--
			01276	00013	DC	C.7.2.5	C.7.1.1.5	--	--
			01276	00014	DC	C.7.2.5	C.7.1.1.5	--	--
			01276	00015	DC	C.4.1.3.5	C.7.1.1.4	C.7.2.4	--
			01276	00016	DC	C.7.4	--	--	--
			01276	00017A	DC	C.4.1.5	--	--	--
			01276	00018A	DC	C.3.1.3	--	--	--
			01276	00018B	DC	C.7.4	--	--	--
			01276	00019	DC	C.7.4	--	--	--
			01276	00020	DC	C.7.4	--	--	--
			01276	00021	DC	C.7.4	--	--	--
			01276	00022	DC	C.7.4	--	--	--
			01276	00023	DC	C.7.2	--	--	--
			01276	00024	DC	C.7.2	--	--	--
			01276	00025	DC	C.7.4	C.7.2	--	--
			01276	00026	DC	C.3.1.3	--	--	--
			01276	00027	DC	C.7.2.6	--	--	--
			01276	00028	DC	C.7.4	--	--	--
			01276	00029	DC	C.4.1.3.1	--	--	--
			01276	00030	DC	C.7.4	--	--	--
			01276	00031	DC	C.4.3	--	--	--
			01276	00032	----------	C.2.8.3	--	--	--
			01276	00033	DC	C.7.3	--	--	--
			01276	00034	----------	C.2.6.1	--	--	--
			01276	00035	DC	C.7.2	--	--	--
			01276	00036	DC	C.4.2.1	--	--	--
			01276	00038	DC	C.4.2.1	--	--	--
			01276	00039	DC	C.4.3	--	--	--
			01276	00040	DC	C.7.2	--	--	--
			01276	00041	DC	C.7.4	--	--	--
			01276	00042	DC	C.7.4	--	--	--
			01276	00043	DC	C.7.2	--	--	--
			01276	00044	DC	C.4.1.3.4	--	--	--
			01276	00045	DC	C.7.1.1.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01276	00046	DC	C.7.2	C.7.1.1	--	--
			01276	00047	DC	C.7.1.1.5	C.7.2.5	--	--
			01276	00048A	DC	C.7.1.1.3	C.7.2.3	--	--
			01276	00048B	DC	C.7.2.4	--	--	--
			01276	00049	DC	C.4.1.3.5	--	--	--
			01276	00050	DC	C.7.2.2	C.4.1.3.2	--	--
			01276	00051	DC	C.4.1.3.2	--	--	--
			01276	00052	DC	C.4.1.3.2	--	--	--
			01276	00053	DC	C.4.1.3.2	--	--	--
			01276	00054	DC	C.4.1.3.2	--	--	--
			01276	00055	----------	C.2.8.2	--	--	--
	Shiflet, Thomas	U.S. Dept. of Agriculture	01238	00001	DS,RN,DC	C.6.6	C.5.11	C.2.7	--
			01238	00002	DS,RN,DC	C.2.2.1	C.7.1.1	C.7.2	--
			01238	00003	DS,RN,DC	C.4.1.1	C.4.1	C.4.1.1	--
			01238	00004	DS,RN,DC	C.4.3	--	--	--
			01238	00005	DS	C.4.1.2.1	C.7.1.1.8	--	--
			01238	00006	DS	C.7.2	--	--	--
			01238	00007	DS	C.4.1.2.1	C.4.1.3	--	--
			01238	00008	DS	C.4.1.3	--	--	--
			01238	00009	DS	C.4.1.1.2	--	--	--
			01238	00010	DS	C.4.1.1.9	--	--	--
			01238	00011	DS	C.4.1.2.3	--	--	--
			01238	00012	DS	C.4.1.3.1	--	--	--
			01238	00013	DS	C.4.1.3.1	--	--	--
			01238	00014	DS	C.4.1.3.2	--	--	--
			01238	00015	DS	C.4.1.3.2	--	--	--
			01238	00016	DS	C.4.1.3.2	--	--	--
			01238	00017	DS	C.4.2.1	--	--	--
			01238	00018	DS	C.4.2.2	--	--	--
			01238	00019	DS	C.4.2.2	--	--	--
			01238	00020	DS	C.4.2.2	--	--	--
			01238	00021	DS	C.4.2.2	--	--	--
			01238	00022	DS	C.4.2.2	--	--	--
			01238	00023	DS	C.4.2.3	--	--	--
			01238	00024	DS	C.7.1.1.1	--	--	--
			01238	00025	DS	C.7.1.1.8	--	--	--
			01238	00026	DS	C.7.1.1	--	--	--
			01238	00027	DS	C.7.1.1.1	C.7.1.2	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington, D.C. (continued)									
			01238	00028	DS	C.4.1.1.9	--	--	--
			01238	00029	DS	C.4.3	--	--	--
			01238	00030	DS	C.4.3	--	--	--
			01238	00031	DS	C.7.4.2	--	--	--
			01238	00033	----------	C.3.4.4	--	--	--
	Smith, David W.		00040	00001	----------	C.2.1.1	--	--	--
			00040	00002	----------	C.2.1.1	--	--	--
	Stennis, John	U.S. Senate	01680	00001	----------	C.3.1.2	--	--	--
	Swift, Congressman Al	U.S. House of Representatives	02617	00001	----------	C.3.1.2	C.7.2	--	--
			02617	00002	----------	C.2.1.1	--	--	--
			02617	00004	----------	C.3.1	--	--	--
			02617	00005	----------	C.3.1.2	--	--	--
			02617	00006	----------	C.3.1.1	--	--	--
			02617	00010	----------	C.3.1.2	--	--	--
			02617	00011	----------	C.3.1.2	--	--	--
	Yeager, Brooks B.	Sierra Club	01239	00001	----------	C.2.1.1	--	--	--
			01239	00002	----------	C.2.2	--	--	--
			01239	00003A	----------	C.3.1.1	--	--	--
			01239	00003B	----------	C.3.1.2	--	--	--
			01239	00004	----------	C.3.1.2	--	--	--
			01239	00005	----------	C.3.1.2	--	--	--
			01239	00006	----------	C.3.1.2	--	--	--
			01239	00007	DC	C.7.1	C.3.1.3	--	--
			01239	00008	----------	C.2.4.1	C.7.3	--	--
			01239	00009	----------	C.2.6.1	--	--	--
			01239	00013	----------	C.2.6.3	6.4	--	--
			01239	00014	DC	C.7.2	--	--	--
			01239	00015	DC	C.4.2.1	C.4.1	--	--
Florida									
	Baez, Alberto	North Miami Senior High	02693	00001	DC	C.7.2.4	C.7.1.1.4	C.7.2.8	--
			02693	00002	DC	C.1.1.2	C.2.2	--	--
	Holloway, Mrs. Anita		00555	00001	----------	C.3.1.2	--	--	--
			00555	00002	DC	C.7.2	--	--	--
	Laping, Mrs. T.		00062	00001	----------	C.3.4.4	--	--	--
			00062	00002	DC	C.7.2	--	--	--
			00062	00003	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Florida (continued)									
			00062	00004	DC	C.7.2	--	--	--
	Votoe, Deborah		02691	00001	----------	C.7.2	--	--	--
	Williams,Jr., J.W.	Florida Power & Light Company	01556	00001	----------	C.2.4.1	--	--	--
Georgia									
	Sokol, Jean	The Wilderness Society	00652	00001	DC	C.7.2.4	C.7.2.5	C.7.3	--
			00652	00002	DC	C.7.4	--	--	--
			00652	00003	DC	C.7.2.6	--	--	--
			00652	00004	----------	C.3.4.4	--	--	--
	Yarbrough, Mrs. J.C.		00083	00001	----------	C.3.1.2	--	--	--
			00083	00002	----------	C.3.4.4	--	--	--
			00083	00003	----------	C.2.8.3	--	--	--
Idaho									
	Anonymous	C.A.N.W.E	01162	00001	----------	C.2.3.1	--	--	--
			01162	00002	----------	C.2.4.1	--	--	--
			01162	00003	----------	C.2.4.1	--	--	--
			01162	00004	----------	C.2.4.1	--	--	--
			01162	00006	----------	C.2.8.3	--	--	--
	Brower, Cheryl		02609	00001	----------	C.3.1.2	--	--	--
			02609	00002	DC	C.7.2.4	C.7.2.5	--	--
			02609	00003	DC	C.5.1	--	--	--
			02609	00004	----------	C.3.1.2	--	--	--
	Funderburg, Robert D.	State of Idaho	00173	00001	----------	C.2.4.1	--	--	--
			00173	00002	----------	C.2.4.1	--	--	--
			00173	00003	----------	C.2.4.1	--	--	--
			00173	00004	----------	C.2.4.1	--	--	--
	Hall, S.J.		00150	00001A	----------	C.2.4.1	--	--	--
	Hanson, Wes & Gertie		01142	00001	----------	C.2.4.1	--	--	--
			01142	00003	----------	C.2.3.1	--	--	--
	Patchin, Margaret		01149	00001	----------	C.2.4.1	--	--	--
	Pinkham, Allen V.	Nez Perce Tribal Exec. Comm.	01253	00001	----------	C.2.7	--	--	--
			01253	00003	----------	C.2.5.2	--	--	--
			01253	00004	----------	C.3.4.4	--	--	--
			01253	00005	----------	C.2.6.1	--	--	--
			01253	00006	----------	C.2.5.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Idaho (continued)									
			01253	00008	----------	C.2.7	--	--	--
			01253	00015	----------	C.2.1.2	--	--	--
			01253	00078	----------	C.2.4.1	--	--	--
			01253	00103	----------	C.3.4.1	--	--	--
			01253	00104	----------	C.3.4.1	--	--	--
			01253	00105	----------	C.3.4.1	--	--	--
			01253	00106	----------	C.3.4.1	--	--	--
			01253	00107	----------	C.3.4.1	--	--	--
			01253	00108	----------	C.7.3	--	--	--
			01253	00109	----------	C.7.3	--	--	--
			01253	00110	----------	C.7.3	--	--	--
			01253	00111	----------	C.7.3	--	--	--
			01253	00112	----------	C.3.4.3	--	--	--
	Robinson, Mary & Dwight		01585	00001	----------	C.2.4.1	--	--	--
			01585	00002	----------	C.2.6.2	--	--	--
Illinois									
	Coyner, Donald R.		00461	00001	DC	C.7.2	--	--	--
			00461	00002	DC	C.3.1.3	--	--	--
	Dinelli, Wayne	DuPage Audubon Society	00149	00001	----------	C.3.4.4	--	--	--
	Gursh, Marla Kay		00161	00001	----------	C.3.1.2	--	--	--
			00161	00002	----------	C.3.1.2	--	--	--
	Hulmer, Ross and Sylvia		00326	00001	DC	C.7.2	--	--	--
	Kendorski, Francis S.	Terraform Engineers Inc.	02719	00001	DC	C.4.1.1.6	--	--	--
	Leineweber, Kevin		00313	00001	DC	C.7.2	--	--	--
	Listermann, Nick		00312	00001	DC	C.7.2.5	C.7.2.2	C.7.3	--
	McGuire, Margaret A.		00052	00001	----------	C.3.4.4	--	--	--
	Rice, Larry		00172	00001	----------	C.3.1.2	--	--	--
	Scheff, Dorothy		00181	00001	DC	C.6.5	--	--	--
	Smith, Jill Janine		00146	00001	----------	C.3.1.2	--	--	--
			00146	00002	DC	C.7.2.5	--	--	--
			00146	00003	DC	C.7.2	--	--	--
			00146	00004	DC	C.7.2	--	--	--
			00146	00005	DC	C.7.2	--	--	--
			00146	00006	DC	C.7.2	--	--	--
	Smith, Joan C. J.		00325	00001	DC	C.3.1.3	--	--	--
			00325	00002	DC	C.7.2.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Illinois (continued)									
			00325	00003	DC	C.7.2	--	--	--
			00325	00004	DC	C.7.2	--	--	--
			00325	00005	DC	C.7.4	--	--	--
	Speron, Sam J.		00302	00001	----------	C.3.4.4	--	--	--
			00302	00002	----------	C.3.4.4	--	--	--
	Stern, David A.		00196	00001	DC	C.7.2.5	--	--	--
	Tolliver, Judy		00532	00001	DC	C.3.1.3	--	--	--
	Tsiang, Margaret		01071	00001	----------	C.3.4.4	--	--	--
			01071	00002	DC	C.7.1	--	--	--
			01071	00003	DC	C.7.2.2	--	--	--
	Warble, Steve		01066	00001	----------	C.3.4.4	--	--	--
		Wilderness & Nature Photography	00038	00001	DC	C.7.2	--	--	--
	Wilson, Richard C.		00621	00001	DC	C.7.2.4	--	--	--
			00621	00002	DC	C.7.2.4	C.7.2.6	--	--
	Wyatt, John J.	Illinois Central Gulf	01740	00001	----------	C.2.8.2	--	--	--
Indiana									
	Cox, Gary M.		00477	00001	DC	C.3.1.3	--	--	--
			00477	00002A	DC	C.7.2	--	--	--
			00477	00002B	DC	C.7.2	--	--	--
			00477	00003	DC	C.7.1.1	--	--	--
			00477	00004	DC	C.7.2.3	--	--	--
			00477	00005A	DC	C.7.2	--	--	--
			00477	00005B	DC	C.7.4	--	--	--
			00477	00006	DC	C.7.2	--	--	--
			00477	00007A	DC	C.4.1.5	--	--	--
			00477	00007B	DC	C.7.4	--	--	--
			00477	00008	DC	C.7.2	--	--	--
			00477	00009	DC	C.7.1.1	--	--	--
			00477	00010	DC	C.7.3	--	--	--
			00477	00011	DC	C.3.1.3	--	--	--
	Crockett, Dr. Wayne A.		00248	00001	DC	C.7.2	--	--	--
	Noe, Nicholas W.		00363	00001	DC	C.7.2	--	--	--
	Read, Charlotte J.	Save the Dunes Council	00048	00001	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Kansas									
		Boy Scouts of America,Pack 3	02736	00001	----------	C.3.1.2	--	--	--
	Klann, Erik	Public Citizen	02737	00001	----------	C.3.1.2	--	--	--
	Russell, Derek		02738	00001	----------	C.3.1.2	--	--	--
	Moore-Anderson, Carol J.		00034	00001	----------	C.3.4.4	--	--	--
	Moore-Fleming, Delores B.		00036	00001	----------	C.3.4.4	--	--	--
	Moore-Jones, Joan E.		00037	00001	----------	C.3.4.4	--	--	--
	Sperry, Theodore M.		00080	00001	----------	C.3.1.2	--	--	--
	Tyseh, Nathan	Public Citizen	02739	00001	----------	C.3.1.2	--	--	--
Kentucky									
	Kelly, James C.		00197	00001	----------	C.3.4.4	--	--	--
			00197	00002	DC	C.6.5	--	--	--
			00197	00003	DC	C.7.4	--	--	--
			00197	00004	----------	C.3.1.2	--	--	--
Louisiana									
	Anonymous		02178	00004	----------	C.3.1.2	--	--	--
			02178	00005	----------	C.2.4.1	--	--	--
			02178	00006	----------	C.2.4.1	--	--	--
			02178	00007	----------	C.2.4.1	--	--	--
		Bienville Parish Police Jury	02175	00001	----------	C.3.1.2	--	--	--
			02175	00002	----------	C.2.1.1	--	--	--
			02175	00003	----------	C.2.4.3	--	--	--
			02175	00007	----------	C.2.1.1	--	--	--
	Anonymous		02176	00001	----------	C.3.1.2	--	--	--
			02176	00006	----------	C.3.1.2	--	--	--
			02176	00008	----------	C.2.3.2	--	--	--
			02176	00009	----------	C.2.2	--	--	--
	Beatty, Mayor Lloyd		00910	00002	----------	C.2.1.1	--	--	--
			00910	00003	----------	C.3.4.4	--	--	--
			00910	00007	----------	C.2.1.1	--	--	--
	Bohlinger, L. Hall		00906	00001	----------	C.3.4.4	--	--	--
			00906	00002	----------	C.2.1.2	--	--	--
			00906	00003	----------	C.2.1.1	--	--	--
			00906	00004	----------	C.2.1.1	--	--	--
			00906	00005	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Louisiana (continued)									
	Bohlinger, L. Hall		02172	00001	----------	C.3.4.4	--	--	--
			02172	00002	----------	C.2.2	--	--	--
			02172	00003	----------	C.2.1.1	--	--	--
			02172	00004	----------	C.2.3.3	--	--	--
			02172	00005	----------	C.3.4.4	--	--	--
	Bohlinger, L. Hall	LA Dept. of Environ. Quality	01368	00005	----------	C.2.3.1	--	--	--
			01368	00006	----------	C.2.7	--	--	--
			01368	00047	----------	C.2.4.1	--	--	--
			01368	00048	----------	C.2.4.1	--	--	--
			01368	00049	----------	C.2.4.1	--	--	--
			01368	00050	----------	C.2.4.1	--	--	--
			01368	00051	----------	C.2.4.1	--	--	--
			01368	00053	----------	C.7.3	--	--	--
			01368	00054	----------	C.2.4.1	--	--	--
			01368	00055	----------	C.2.4.1	--	--	--
			01368	00056	----------	C.2.4.1	--	--	--
			01368	00057	----------	C.2.4.1	--	--	--
			01368	00058	----------	C.2.4.1	--	--	--
			01368	00059	----------	C.7.3	--	--	--
			01368	00060	----------	C.2.4.1	--	--	--
			01368	00062	----------	C.2.4.1	--	--	--
			01368	00063	----------	C.7.3	--	--	--
			01368	00064	----------	C.7.3	--	--	--
			01368	00065	----------	C.7.3	--	--	--
			01368	00110	----------	C.3.1.1	--	--	--
			01368	00111	----------	C.3.4.3	--	--	--
	Bohlinger, L. Hall	Office of Air Qual. & Nuc. Eng.	02168	00001	----------	C.3.4.4	--	--	--
			02168	00002	----------	C.2.2	--	--	--
			02168	00003	----------	C.2.1.1	--	--	--
			02168	00004	----------	C.2.1.1	--	--	--
			02168	00005	----------	C.3.4.4	--	--	--
	Bohlinger, L. Hall	Office of Air Qual. & Nuc. Eng.	02683	00001	----------	C.2.7	--	--	--
			02683	00002	----------	C.2.7	--	--	--
			02683	00003	----------	C.2.7	--	--	--
			02683	00004	----------	C.2.7	--	--	--
			02683	00005	----------	C.2.7.1	--	--	--
			02683	00009	----------	C.2.7	--	--	--
			02683	00013	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Louisiana (continued)									
			02683	00028	----------	C.2.8.2	--	--	--
			02683	00030	----------	C.3.1.2	--	--	--
			02683	00031	----------	C.2.4.2	--	--	--
			02683	00038	RN	C.7.2	--	--	--
			02683	00060	----------	C.2.4.1	--	--	--
			02683	00061	----------	C.2.4.1	--	--	--
	Bolinger, L. Hall		00898	00001	----------	C.3.1.2	--	--	--
			00898	00002	----------	C.2.1.2	--	--	--
			00898	00003	----------	C.2.1.1	--	--	--
			00898	00004	----------	C.2.1.1	--	--	--
			00898	00005	----------	C.3.1.2	--	--	--
	Byars, Mayor Noel		00911	00001	----------	C.3.4.4	--	--	--
			00911	00006	----------	C.3.4.4	--	--	--
			00911	00008	----------	C.3.4.4	--	--	--
	Collins, Harry		00920	00002	----------	C.3.4.4	--	--	--
		Office of Air Qual. & Nuc. Eng.	02684	00001	----------	C.2.7	--	--	--
			02684	00002	----------	C.2.7	--	--	--
			02684	00003	----------	C.2.7	--	--	--
			02684	00004	----------	C.3.1.2	--	--	--
			02684	00005	----------	C.3.1.1	--	--	--
			02684	00006	----------	C.2.7	--	--	--
			02684	00007	----------	C.2.7	--	--	--
			02684	00008	----------	C.2.7	--	--	--
			02684	00010	----------	C.2.7	--	--	--
			02684	00011	----------	C.2.7	--	--	--
			02684	00014	----------	C.2.7	--	--	--
			02684	00015	----------	C.2.7	--	--	--
			02684	00016	----------	C.2.7	--	--	--
			02684	00019	----------	C.2.7	--	--	--
			02684	00020	----------	C.2.7	--	--	--
			02684	00021	----------	C.2.7	--	--	--
			02684	00022	----------	C.2.1.1	--	--	--
			02684	00286	----------	C.5.7	--	--	--
			02684	00287	----------	C.2.4.1	--	--	--
			02684	00319	----------	C.3.1.1	--	--	--
			02684	00326	----------	C.2.4.1	--	--	--
			02684	00345	----------	C.2.4.1	--	--	--
			02684	00346	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Louisiana (continued)									
			02684	00367	----------	C.2.4.1	--	--	--
			02684	00492	----------	C.3.4.3	--	--	--
			02684	00493	----------	C.3.4.1	--	--	--
			02684	00494	----------	C.3.4.1	--	--	--
			02684	00495	----------	C.3.4.1	--	--	--
			02684	00496	----------	C.2.4.1	--	--	--
			02684	00497	----------	C.2.4.1	--	--	--
			02684	00498	----------	C.2.4.1	--	--	--
			02684	00499	----------	C.2.4.1	--	--	--
			02684	00501	----------	C.2.4.1	--	--	--
			02684	00502	----------	C.2.4.1	--	--	--
			02684	00503	----------	C.2.4.1	--	--	--
			02684	00504	----------	C.2.4.1	--	--	--
			02684	00505	----------	C.2.4.1	--	--	--
			02684	00506	----------	C.2.4.1	--	--	--
			02684	00507	----------	C.2.4.1	--	--	--
			02684	00508	----------	C.2.4.1	--	--	--
			02684	00509	----------	C.2.4.1	--	--	--
			02684	00510	----------	C.2.4.1	--	--	--
			02684	00511	----------	C.2.4.1	--	--	--
			02684	00512	----------	C.2.8.3	--	--	--
		Office of Air Qual. & Nuc. Eng.	02685	00005	----------	C.3.1.1	--	--	--
			02685	00007	----------	C.3.4.3	--	--	--
			02685	00009	----------	C.3.4.3	--	--	--
			02685	00016	----------	C.3.1.2	--	--	--
			02685	00019	----------	C.3.1.1	--	--	--
	Cramer, George		00904	00003	----------	C.2.4.1	--	--	--
			00904	00004	----------	C.2.4.1	--	--	--
			00904	00005	----------	C.2.4.1	--	--	--
			00904	00006	----------	C.2.6.1	--	--	--
	Cramer, George		02171	00001	----------	C.2.4.1	--	--	--
			02171	00003	----------	C.2.4.1	--	--	--
			02171	00004	----------	C.2.4.1	--	--	--
			02171	00005	----------	C.2.4.1	--	--	--
			02171	00006	----------	C.2.4.1	--	--	--
			02171	00007	----------	C.2.4.1	--	--	--
	Daigre, Glen		00899	00001	----------	C.3.1.1	--	--	--
			00899	00002	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Louisiana (continued)									
	Fields, David		00909	00001	----------	C.3.4.4	--	--	--
			00909	00002	----------	C.2.1.1	--	--	--
			00909	00003	----------	C.3.4	--	--	--
			00909	00007	----------	C.2.1.1	--	--	--
	Garrett, Bruce		00913	00001	----------	C.3.4.4	--	--	--
	Hammond, Frank		00919	00001	----------	C.3.4.4	--	--	--
			00919	00002	----------	C.3.4.4	--	--	--
	Henagan, L. A.		02169	00001	----------	C.3.1.1	--	--	--
			02169	00002	----------	C.2.4.1	--	--	--
	Henagan, L. A.	LA State Planning Office	02174	00001	----------	C.3.1.1	--	--	--
			02174	00002	----------	C.2.4.1	--	--	--
			02174	00003	----------	C.2.4.1	--	--	--
	Lacour, SMS Henry J.	USAF Retired	00006	00001	----------	C.2.3.1	--	--	--
			00006	00002	----------	C.2.8	--	--	--
			00006	00003	----------	C.3.4.4	--	--	--
	Lowe, Patsy		00917	00001	----------	C.3.4.4	--	--	--
	Mailin, Ronald	Sierra Club	02631	00001	----------	C.2.3.3	--	--	--
			02631	00002	----------	C.3.1.2	--	--	--
			02631	00003	----------	C.3.1.2	--	--	--
			02631	00004	----------	C.2.4.1	--	--	--
			02631	00005	----------	C.2.4.1	--	--	--
			02631	00006	----------	C.2.3.1	--	--	--
	Martin, Ronald A.		00411	00001	----------	C.2.3.3	--	--	--
			00411	00002	----------	C.3.1.2	--	--	--
			00411	00003	----------	C.3.1.2	--	--	--
			00411	00004	----------	C.7.3	--	--	--
			00411	00005	----------	C.7.3	--	--	--
			00411	00006	----------	C.2.3.1	--	--	--
	Martin, Ronald		00914	00001	----------	C.3.1.2	--	--	--
			00914	00002	----------	C.3.1.2	--	--	--
			00914	00003	----------	C.2.4.1	--	--	--
			00914	00004	----------	C.2.3.1	--	--	--
			00914	00007	----------	C.2.4.1	--	--	--
			00914	00008	----------	C.2.4.1	--	--	--
			00914	00009	----------	C.2.4.1	--	--	--
			00914	00010	----------	C.3.3.1	--	--	--
	McMullen, Ted		00908	00002	----------	C.3.1.1	--	--	--
			00908	00003	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Louisiana (continued)									
	Moore-Iverson, Fannie F.		00047	00001	----------	C.3.4.4	--	--	--
	Robertson, Bill	Webster Parish Police Jury	02177	00001	----------	C.3.1.2	--	--	--
	Selbin, Joel		00903	00005	----------	C.3.1.2	--	--	--
	Skibitzke, Herbert		00905	00001	----------	C.2.7	--	--	--
	Tobin, Robert		00918	00001	----------	C.3.4.4	--	--	--
Massachusetts									
	Greene, Cathy C.		00656	00001	----------	C.3.4.4	--	--	--
			00656	00005	----------	C.3.4.3	--	--	--
			00656	00006	----------	C.3.1.2	--	--	--
	Greone, Alan		00396	00001	DC	C.7.2	--	--	--
			00396	00002	----------	C.3.1.2	--	--	--
			00396	00003	DC	C.7.2	--	--	--
			00396	00004	DC	C.7.2.4	--	--	--
	Halpern, Harvey		01077	00001	----------	C.3.1.2	--	--	--
	Kesselman, Barry		00276	00001	----------	C.3.4.4	--	--	--
	Prost, Carol		00332	00001	DC	C.3.1.3	--	--	--
			00332	00002	DC	C.7.2	--	--	--
	Sibik, Sara & Charlie		00045	00001	DC	C.7.2	--	--	--
			00045	00002	DC	C.7.2.5	--	--	--
			00045	00003	DC	C.7.2	--	--	--
			00045	00004	DC	C.7.2	--	--	--
			00045	00005	DC	C.7.4	--	--	--
			00045	00006	DC	C.7.2.6	--	--	--
			00045	00007	DC	C.7.2	--	--	--
	Stedman, Anne B.		00353	00001	----------	C.7.2.5	--	--	--
			00353	00002	----------	C.7.2.4	--	--	--
			00353	00003	----------	C.7.1	--	--	--
			00353	00004	----------	C.7.1	--	--	--
			00353	00005	----------	C.7.2.6	--	--	--
			00353	00006	----------	C.3.4.4	--	--	--
	Talcott, Jane		00187	00001	DC	C.7.2	--	--	--
	Watson, Wendy		02112	00001	DC	C.7.1.1	C.7.2	--	--
			02112	00002	DC	C.7.1.1.2	C.7.2.2	--	--
			02112	00003	DC	C.7.1.1.6	C.7.2.6	--	--
			02112	00004	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Maryland									
	Drews, Kenneth A.		00089	00001	----------	C.3.4.4	--	--	--
			00089	00002	DC	C.7.2	--	--	--
	Goff, Alice		01811	00001	----------	C.3.4.4	--	--	--
	Solomon, Dr. Kenneth	Sheppard & Enoch Pratt Hospital	00086	00001	----------	C.3.4.4	--	--	--
			00086	00002	DC	C.3.1.3	--	--	--
			00086	00003	DC	C.6.5	--	--	--
			00086	00004	DC	C.7.2	--	--	--
			00086	00005	DC	C.7.2	--	--	--
			00086	00006	DC	C.7.1.1	--	--	--
			00086	00007	DC	C.7.1.1	--	--	--
			00086	00008	DC	C.7.2	--	--	--
			00086	00009	DC	C.7.2	--	--	--
Maine									
	Adams, David A		01193	00001	DC	C.7.4	--	--	--
			01193	00002	DC	C.7.2.6	C.7.1	C.7.2.4	C.7.2.5
			01193	00003	----------	C.3.4.4	--	--	--
	Brainerd, John W.		00092	00001	----------	C.3.4.4	--	--	--
			00092	00002	DC	C.7.2	--	--	--
Michigan									
	Booker, Danny		00271	00001	DC	C.7.2	--	--	--
	Coyer, Gayle	Upper Peninsula Env. Coalition	00650	00001	DC	C.4.3	--	--	--
			00650	00002	----------	C.3.1.2	--	--	--
			00650	00003	----------	C.3.4.4	--	--	--
			00650	00004	----------	C.3.4.4	--	--	--
			00650	00005	----------	C.3.1.1	--	--	--
			00650	00006	----------	C.3.1.2	--	--	--
			00650	00007	----------	C.3.1.2	--	--	--
			00650	00008	DC	C.5.1	--	--	--
			00650	00009	DC	C.4.1.2.2	--	--	--
			00650	00010	----------	C.2.4.1	--	--	--
			00650	00011	DC	C.5.6	--	--	--
			00650	00012	DC	C.6.3	--	--	--
			00650	00013	DC	C.7.2.5	C.7.2.3	--	--
			00650	00014	DC	C.7.2.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Michigan (continued)									
			00650	00015	DC	C.7.2.3	--	--	--
			00650	00016	DC	C.7.2	--	--	--
			00650	00017	DC	C.7.2.4	--	--	--
			00650	00018	DC	C.7.3	--	--	--
	Leighton, M.		00422	00001	DC	C.7.2	--	--	--
			00422	00002	----------	C.3.4.4	--	--	--
	Martin, Dr. James E.	School of Public Health	02605	00001	----------	C.3.1.2	C.3.1.3	--	--
			02605	00002	----------	C.3.1.2	--	--	--
	Scherpenisse, Carol Sue		00462	00001	DC	C.7.2	--	--	--
	Stone, G. W. E.		00489	00001	----------	C.3.1.2	--	--	--
Minnesota									
	Peterson, William V.		00134	00001	----------	C.3.4.4	--	--	--
	Schnabel, Daniel E.		00275	00001	----------	C.3.4.4	--	--	--
			00275	00004	----------	C.2.8.1	--	--	--
Mississippi									
	Abbott, Carol		01963	00001	----------	C.3.4.4	--	--	--
	Abbott, Chestre H.		01964	00001	----------	C.3.4.4	--	--	--
	Abbott, Kelly J.		01999	00001	----------	C.3.4.4	--	--	--
	Adamo, Vincent		00942	00001	----------	C.3.4.4	--	--	--
			00942	00002	----------	C.3.4.4	--	--	--
	Agar, Tina		01749	00001	----------	C.3.4.4	--	--	--
	Allain, Governor Bill		01031	00001	----------	C.3.1.2	--	--	--
			01031	00002	----------	C.2.7	--	--	--
			01031	00003	----------	C.3.4.4	--	--	--
			01031	00004	----------	C.3.4.4	--	--	--
			01031	00005	----------	C.3.4.4	--	--	--
			01031	00005A	----------	C.2.1.1	--	--	--
			01031	00005B	----------	C.3.4.4	--	--	--
			01031	00006	----------	C.3.4.4	--	--	--
	Allen, Elizabeth		01936	00001	----------	C.3.4.4	--	--	--
	Alvarado, Julie Elizabeth		01852	00001	----------	C.3.4.4	--	--	--
	Anonymous		01637	00001	----------	C.3.4.4	--	--	--
	Anonymous		01736	00001	----------	C.2.8.2	--	--	--
	Anonymous		01800	00001	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Anonymous		01817	00001	----------	C.3.4.4	--	--	--
	Anonymous		01906	00001	----------	C.3.4.4	--	--	--
	Anonymous		01908	00001	----------	C.3.1.2	--	--	--
	Anonymous		01940	00001	----------	C.3.4.4	--	--	--
	Anonymous		01956	00001	----------	C.3.4.4	--	--	--
	Anonymous		01968	00001	----------	C.2.4.1	--	--	--
	Anonymous		01984	00001	----------	C.3.4.4	--	--	--
		Home Builders Assn. of Jackson	01683	00001	----------	C.3.4.4	--	--	--
		MS State Med. Assn. of Delegat.	01681	00001	----------	C.2.8.2	--	--	--
		Mississippi Situation	01737	00001	----------	C.2.8.2	--	--	--
		Pre School, Director	01814	00001	----------	C.3.4.4	--	--	--
		Sierra Club Central MS Group	01607	00001	RN	C.7.2.1	--	--	--
			01607	00002	RN	C.7.2.2	--	--	--
			01607	00003	RN	C.6.3	--	--	--
			01607	00004	RN	C.5	C.7.2.8	--	--
			01607	00005	RN	C.5.11	--	--	--
			01607	00006	RN	C.5.7	--	--	--
			01607	00007	RN	C.4.2	--	--	--
			01607	00008	RN	C.7.2	--	--	--
			01607	00009	RN	C.7.4.1	--	--	--
			01607	00010	RN	C.7.3	--	--	--
			01607	00011	RN	C.7.3	--	--	--
	Asche, Suzanne L		01949	00001	----------	C.3.4.4	--	--	--
	Atkins, James W.		01927	00001	----------	C.2.4.1	--	--	--
	Austin, Virginia B.		00217	00001	----------	C.3.4.4	--	--	--
	Backstrom, Kally		01000	00001	----------	C.3.4.4	--	--	--
	Backstron, Kally		01641	00001	----------	C.3.4.4	--	--	--
	Baillieul, Thomas	NWTS Program Office	01744	00001	----------	C.2.8.2	--	--	--
	Bakker, Shirley J.		01777	00001	----------	C.3.4.4	--	--	--
	Bakker, Adolph R.		01778	00001	----------	C.3.4.4	--	--	--
	Bakker, Terry		01780	00001	----------	C.3.4.4	--	--	--
	Baldwin, Rev. Fred		00993	00001	RN	C.7.4	--	--	--
			00993	00002	----------	C.3.4.4	--	--	--
			00993	00003	----------	C.3.4.4	--	--	--
			00993	00004	RN	C.7.2	--	--	--
			00993	00005	RN	C.7.4.2	--	--	--
			00993	00006	RN	C.7.4.4	--	--	--
	Ball, Mary		01623	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Ball, Wilbur G.	MS Dept. of Energy and Trans.	01370	00001	----------	C.2.2.1	--	--	--
			01370	00002	----------	C.3.1.2	--	--	--
			01370	00003	----------	C.2.2	--	--	--
			01370	00004	----------	C.2.1.1	--	--	--
			01370	00005	----------	C.3.4.4	--	--	--
			01370	00006	----------	C.2.1.2	--	--	--
			01370	00007	----------	C.2.1.2	--	--	--
			01370	00008	----------	C.3.1.1	--	--	--
			01370	00009	----------	C.3.4.3	--	--	--
			01370	00010	----------	C.3.4.3	--	--	--
			01370	00011	----------	C.3.4.3	--	--	--
			01370	00012	----------	C.3.4.3	--	--	--
			01370	00013	----------	C.3.4.3	--	--	--
			01370	00014	----------	C.3.4.3	--	--	--
			01370	00015	----------	C.3.4.3	--	--	--
			01370	00016	----------	C.3.4.2.1	--	--	--
			01370	00017	----------	C.3.4.3	--	--	--
			01370	00018	----------	C.3.4.1	C.3.4.2.2	--	--
			01370	00019	----------	C.3.4.3	--	--	--
			01370	00020	----------	C.3.4.3	--	--	--
			01370	00021	RN,DC,DS	C.4.1.2.2	--	--	--
			01370	00022	----------	C.3.4.1	--	--	--
			01370	00023	RN	C.4.1.1.6	--	--	--
			01370	00024	----------	C.3.4.2.1	--	--	--
			01370	00025	----------	C.3.4.2.2	--	--	--
			01370	00026	----------	C.3.4	--	--	--
			01370	00027	RN	C.4.1.2.2	--	--	--
			01370	00028	RN	C.4.1.2.2	--	--	--
			01370	00029	RN	C.4.1.2.2	--	--	--
			01370	00030	RN	C.4.1.2.2	--	--	--
			01370	00031	RN	C.4.1.2.2	--	--	--
			01370	00032	RN	C.4.1.2.2	--	--	--
			01370	00033	RN	C.4.1.2.2	--	--	--
			01370	00034	RN	C.4.1.2.2	--	--	--
			01370	00035	RN	C.4.1.2.2	--	--	--
			01370	00036	RN	C.4.1.2.2	--	--	--
			01370	00037	RN	C.4.1.2.2	--	--	--
			01370	00038	RN	C.4.1.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01370	00039	RN	C.4.1.2.2	--	--	--
			01370	00040	RN	C.4.1.2.2	--	--	--
			01370	00041	RN	C.4.1.2.2	--	--	--
			01370	00042	RN	C.4.1.2.2	--	--	--
			01370	00043	RN	C.4.1.2.2	--	--	--
			01370	00044	RN	C.4.1.2.2	--	--	--
			01370	00045	RN	C.4.1.2.2	--	--	--
			01370	00046	RN	C.4.1.2.2	--	--	--
			01370	00047	RN	C.5.1	C.5.11	--	--
			01370	00048	RN	C.5.1	--	--	--
			01370	00049	RN	C.5.1	--	--	--
			01370	00050	RN	C.3.3.2	C.5.6	C.4.1.1.5	--
			01370	00051	RN	C.4.1.1.5	--	--	--
			01370	00052	RN	C.4.1.2.2	--	--	--
			01370	00053	RN	C.4.1.1.3	--	--	--
			01370	00054	RN	C.4.1.1.5	--	--	--
			01370	00055	RN	C.4.1.1.5	--	--	--
			01370	00056	RN	C.5.6	--	--	--
			01370	00057	RN	C.5.6	C.4.1.1.5	--	--
			01370	00058	RN	C.5.6	C.4.1.1.5	--	--
			01370	00059	RN	C.5.6	C.4.1.1.5	--	--
			01370	00060	RN	C.4.1.1.5	--	--	--
			01370	00061	RN	C.4.1.1.5	--	--	--
			01370	00062	RN	C.4.1.1.5	--	--	--
			01370	00063	RN	C.4.1.1.7	--	--	--
			01370	00064	RN	C.5.11	--	--	--
			01370	00065	RN	C.4.1.1.5	--	--	--
			01370	00066	RN	C.5.1	--	--	--
			01370	00067	RN	C.4.1.1.5	--	--	--
			01370	00068	RN	C.4.1.1.5	--	--	--
			01370	00069	RN	C.4.1.1.3	--	--	--
			01370	00070	RN	C.4.1.1.5	C.4.1.1.8	--	--
			01370	00071	RN	C.4.1.1.5	C.5.3	C.8.2	--
			01370	00072	RN	C.4.1.1.5	--	--	--
			01370	00073	RN	C.8.3	C.8.2	C.7.2	--
			01370	00074	RN	C.4.1.1.5	--	--	--
			01370	00075	RN	C.4.1.1.5	--	--	--
			01370	00076	RN	C.4.1.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01370	00077	RN	C.4.1.1.5	--	--	--
			01370	00078	RN	C.4.1.1.5	--	--	--
			01370	00079	RN	C.4.1.1.5	--	--	--
			01370	00080	RN	C.4.1.1.6	--	--	--
			01370	00081	RN	C.4.1.1.5	C.5.3	C.8.2	--
			01370	00082	RN	C.4.1.1.5	--	--	--
			01370	00083	RN	C.4.1.1.5	--	--	--
			01370	00084	RN	C.4.1.1.5	--	--	--
			01370	00085	RN	C.4.1.1.5	--	--	--
			01370	00086	RN	C.4.1.1.5	--	--	--
			01370	00087	RN	C.5.7	C.4.1.1.5	--	--
			01370	00088	RN	C.4.1.1.5	--	--	--
			01370	00089	RN	C.4.1.1.5	--	--	--
			01370	00090	RN	C.4.2.1	--	--	--
			01370	00091	RN	C.4.1.1.5	--	--	--
			01370	00092	RN	C.4.1.1.5	--	--	--
			01370	00093	RN	C.4.1.1.5	--	--	--
			01370	00094	RN	C.4.1.1.5	--	--	--
			01370	00095	RN	C.4.1.1.5	--	--	--
			01370	00096	RN	C.4.1.1.5	--	--	--
			01370	00097	RN	C.4.2.1	--	--	--
			01370	00098	RN	C.4.1.1.5	--	--	--
			01370	00099	RN	C.4.1.1.5	--	--	--
			01370	00100	RN	C.4.1.1.6	--	--	--
			01370	00101	RN	C.4.1.1.6	--	--	--
			01370	00102	RN	C.5.8	--	--	--
			01370	00103	RN	C.5.8	--	--	--
			01370	00104	RN	C.4.1.1.8	--	--	--
			01370	00105	RN	C.4.1.1.8	--	--	--
			01370	00106	RN	C.4.1.1.8	--	--	--
			01370	00107	RN	C.4.1.1.8	--	--	--
			01370	00108	RN	C.4.1.1.8	--	--	--
			01370	00109	RN	C.4.1.1.8	--	--	--
			01370	00110	RN	C.4.1.1.8	--	--	--
			01370	00111	RN	C.5.8	C.4.1.1	--	--
			01370	00112	RN	C.5.8	--	--	--
			01370	00113	RN	C.5.8	C.4.1.1.8	--	--
			01370	00114	RN	C.4.1.1.8	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01370	00115	RN	C.4.1.1.8	--	--	--
			01370	00116	RN	C.4.1.1.8	--	--	--
			01370	00117	RN	C.4.1.1.8	--	--	--
			01370	00118A	RN	C.5.8	--	--	--
			01370	00118B	RN	C.4.1.1.5	C.5.8	--	--
			01370	00119A	RN	C.4.1.1.8	--	--	--
			01370	00119B	RN	C.6.6	--	--	--
			01370	00120A	RN	C.4.1.1.8	--	--	--
			01370	00120B	RN	C.6.6	--	--	--
			01370	00121	RN	C.4.1.3.3	--	--	--
			01370	00122	RN	C.7.2.7	--	--	--
			01370	00123	RN	C.6.6	--	--	--
			01370	00124	RN	C.6.6	--	--	--
			01370	00125	RN	C.4.1.3.2	--	--	--
			01370	00126	RN	C.4.1.3.2	C.5.11	--	--
			01370	00127	RN	C.4.1.3.2	C.5.11	--	--
			01370	00128	RN	C.4.1.3.3	--	--	--
			01370	00129	RN	C.4.1.3.3	--	--	--
			01370	00130	RN	C.4.2.3	--	--	--
			01370	00131	RN	C.4.2.3	--	--	--
			01370	00132	RN	C.7.2.1	--	--	--
			01370	00133	RN	C.7.1.1	--	--	--
			01370	00134	RN	C.7.2.2	--	--	--
			01370	00135	RN	C.7.2.2	--	--	--
			01370	00136	RN	C.4.1.3.2	--	--	--
			01370	00137	RN	C.7.2.4	--	--	--
			01370	00138	RN	C.4.1.3.2	--	--	--
			01370	00139	RN	C.7.2	--	--	--
			01370	00140	RN	C.4.1.3.2	--	--	--
			01370	00141	RN	C.7.2	--	--	--
			01370	00142	RN	C.4.2.3	--	--	--
			01370	00143	RN	C.4.2.2	--	--	--
			01370	00144	RN	C.4.2.2	--	--	--
			01370	00145	RN	C.4.2.2	--	--	--
			01370	00146	RN	C.4.2.2	--	--	--
			01370	00147	RN	C.7.2	--	--	--
			01370	00148	RN	C.4.3	--	--	--
			01370	00149	RN	C.4.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01370	00150	RN	C.4.1.2.3	--	--	--
			01370	00151	RN	C.4.1.2.3	--	--	--
			01370	00152	RN	C.4.1.3.2	--	--	--
			01370	00153	RN	C.4.1.3.3	--	--	--
			01370	00154	RN	C.4.2.3	--	--	--
			01370	00155	RN	C.7.1.1.2	--	--	--
			01370	00156	RN	C.7.1.1.2	--	--	--
			01370	00157	RN	C.4.3	--	--	--
			01370	00158	RN	C.7.4	--	--	--
			01370	00159	RN	C.4.1.5.1	--	--	--
			01370	00160	RN	C.4.1.5.4	--	--	--
			01370	00161	RN	C.7.4.4	C.4.1.5.4	C.4.1.5	--
			01370	00162	RN	C.4.1.5	--	--	--
			01370	00163	RN	C.4.1.3	--	--	--
			01370	00164	RN	C.4.1.3.1	C.6.1	--	--
			01370	00165	RN	C.4.1.3	C.4.1.5	--	--
			01370	00166	RN	C.4.1.5	C.7.4	--	--
			01370	00167	RN	C.7.2	C.7.4	--	--
			01370	00168	RN	C.4.1.3	C.4.1.5	--	--
			01370	00169	RN	C.4.1.5	C.7.4	--	--
			01370	00170	----------	C.3.4.2.2	--	--	--
			01370	00171	----------	C.3.4.2.1	--	--	--
			01370	00172	RN	C.7.1.2	--	--	--
			01370	00173	RN	C.4.1.5	--	--	--
			01370	00174	RN	C.4.1.5	--	--	--
			01370	00175	RN	C.4.1.5.1	--	--	--
			01370	00176	RN	C.4.1.5.1	--	--	--
			01370	00177	RN	C.4.1.5.1	--	--	--
			01370	00178	RN	C.4.1.5.1	--	--	--
			01370	00179	RN	C.4.1.5.1	--	--	--
			01370	00180	RN	C.4.1.5.2	--	--	--
			01370	00181	RN	C.4.1.5.3	--	--	--
			01370	00182	RN	C.4.1.5.3	--	--	--
			01370	00183	RN	C.7.4	--	--	--
			01370	00184	RN	C.7.4.1	--	--	--
			01370	00185	RN	C.7.4.2	--	--	--
			01370	00186	RN	C.7.4.3	--	--	--
			01370	00187	RN	C.7.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01370	00188	RN	C.7.4.4	--	--	--
			01370	00189	RN	C.7.4.4	--	--	--
			01370	00190	RN	C.7.4	C.7.1.2	--	--
			01370	00191	RN	C.7.1.2	--	--	--
			01370	00192	RN	C.7.4	C.7.1.2	--	--
			01370	00193	RN	C.4.1.3.6	--	--	--
			01370	00194	RN	C.7.4.1	C.4.1.5.1	--	--
			01370	00195A	RN	C.4.1.5.2	--	--	--
			01370	00195B	RN	C.7.4.2	--	--	--
			01370	00196	RN	C.4.1.5.4	--	--	--
			01370	00197	RN	C.7.4	--	--	--
			01370	00198	RN	C.7.4.2	--	--	--
			01370	00199	RN	C.7.4.3	--	--	--
			01370	00200	----------	C.2.1	--	--	--
			01370	00201	RN	C.7.4	--	--	--
			01370	00202	RN	C.4.1.2.3	--	--	--
			01370	00203	----------	C.2.7	--	--	--
			01370	00204	----------	C.3.4.3	--	--	--
			01370	00205	RN	C.4.1.1	--	--	--
			01370	00206	RN	C.4.1.1.3	--	--	--
			01370	00207	RN	C.4.1.1.3	--	--	--
			01370	00208	RN	C.4.1.1.5	--	--	--
			01370	00209	RN	C.5.3	--	--	--
			01370	00210	RN	C.5.5	--	--	--
			01370	00211	RN	C.4.1.3.2	C.7.1.1.2	--	--
			01370	00212	RN	C.4.1.5	C.7.4	--	--
			01370	00213	RN	C.4.1.5	--	--	--
			01370	00214	RN	C.4.1.5	--	--	--
			01370	00215	RN	C.4.1.5	--	--	--
			01370	00216	RN	C.4.1.5	--	--	--
			01370	00217	RN	C.4.1.5	--	--	--
			01370	00218	RN	C.4.1.5	--	--	--
			01370	00219	RN	C.4.1.5	--	--	--
			01370	00220	RN	C.4.1.5	--	--	--
			01370	00221	----------	C.2.1.2	--	--	--
	Banch, Jack	City of Gulfport	01702	00001	----------	C.3.4.4	--	--	--
			01702	00002	----------	C.3.4.4	--	--	--
	Barsinew, M. J.	NPO/DOE	01723	00001	----------	C.2.8.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Bartlett, F. G.		01941	00001	----------	C.3.1.2	--	--	--
	Basnight, Melissa L.		01799	00001	----------	C.3.1.2	--	--	--
	Bates, Jr., Hughie G.		01812	00001	----------	C.3.4.4	--	--	--
	Baumhauer, Dr. & Mrs. Emile		01951	00001	----------	C.3.4.4	--	--	--
	Beardsley, Derek		00990	00001	----------	C.3.4.4	--	--	--
	Beaugez, Hope Alison		01902	00001	----------	C.3.4.4	--	--	--
	Beaugez, Robert L.		01904	00001	----------	C.3.4.4	--	--	--
	Bellande, Mary H.		01962	00001	----------	C.3.4.4	--	--	--
	Bellande, Jr., William E.		01858	00001	RN	C.7.2	C.7.4	--	--
	Ben Bow, Roy W.		01883	00001	RN	C.7.4	--	--	--
	Bennett, Lloyd U.		01970	00001	----------	C.3.4.4	--	--	--
	Bennett, Kanzetty F.		01973	00001	----------	C.3.4.4	--	--	--
	Bergeron, Dixie	Richton Elementary School	01212	00001	----------	C.3.4.4	--	--	--
	Bess, V.		02000	00001	----------	C.3.1.2	--	--	--
	Billington, W.		01886	00001	----------	C.3.4.4	--	--	--
	Birkoliw, Lee D.		02703	00001	----------	C.3.4.4	--	--	--
			02703	00002	----------	C.2.1.5	--	--	--
	Blackman, Carolyn		01017	00001	RN	C.6.1	--	--	--
			01017	00002	----------	C.3.4.4	--	--	--
			01017	00003	RN	C.4.1.5.1	--	--	--
			01017	00004	RN	C.7.4	--	--	--
			01017	00005	RN	C.7.2	--	--	--
			01017	00006	RN	C.6.5	--	--	--
			01017	00007A	RN	C.2.8.3	--	--	--
			01017	00007B	----------	C.3.4.4	--	--	--
			01017	00008	----------	C.3.1.2	--	--	--
			01017	00009	RN	C.7.4.4	--	--	--
			01017	00010	RN	C.4.1.3.5	--	--	--
			01017	00011	----------	C.3.4.4	--	--	--
			01017	00012	RN	C.4.1.1	--	--	--
			01017	00013	RN	C.4.1.1.6	--	--	--
			01017	00014	RN	C.8.2	--	--	--
			01017	00015	RN	C.4.1.2.2	--	--	--
			01017	00016	----------	C.3.4.4	--	--	--
	Blackman, Joe		01019	00001	----------	C.3.1.2	--	--	--
			01019	00002	----------	C.2.5.2	--	--	--
			01019	00003	RN	C.4.1.2.2	--	--	--
			01019	00004	RN	C.4.1.3.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01019	00005	RN	C.4.1.3.2	--	--	--
			01019	00006	RN	C.7.4.4	--	--	--
			01019	00007	----------	C.3.4.4	--	--	--
	Blankenship, Dorothy M.		01762	00001	RN	C.5.6	C.4.1.1.5	C.7.2.8	C.6.1
	Blanton, Tom		00949	00001	----------	C.2.8	--	--	--
			00949	00002	RN	C.4.1.1.5	--	--	--
			00949	00003	RN	C.4.1.1.5	--	--	--
			00949	00004	RN	C.4.3	--	--	--
			00949	00005	RN	C.4.1.3.3	--	--	--
			00949	00006	----------	C.2.7	--	--	--
			00949	00007	RN	C.5.3	--	--	--
			00949	00008	----------	C.3.4.4	--	--	--
	Blanton, Tom		00989	00001	----------	C.3.4.4	--	--	--
			00989	00002	RN	C.4.1.1.8	C.7.4.2	--	--
			00989	00003	RN	C.7.4.2	--	--	--
			00989	00004	RN	C.3.1.3	C.5.8	--	--
			00989	00005	RN	C.5.7	C.3.1.3	C.4.1.1.5	--
			00989	00006	RN	C.5.6	C.4.1.1.5	--	--
			00989	00007	RN	C.5.2	--	--	--
			00989	00008	RN	C.5.11	--	--	--
			00989	00009	RN	C.5.3	C.5.11	--	--
			00989	00010	----------	C.2.3.2	--	--	--
			00989	00011	----------	C.2.1.1	--	--	--
	Blessey, Mayor Gerald		00935	00001	----------	C.3.1.2	--	--	--
			00935	00002	----------	C.3.1.2	--	--	--
			00935	00003	RN	C.7.2.8	--	--	--
			00935	00004	RN	C.7.4.2	--	--	--
			00935	00005	RN	C.7.4.2	--	--	--
			00935	00006	RN	C.7.3	--	--	--
			00935	00007	RN	C.7.4.2	--	--	--
			00935	00008	RN	C.7.4.2	--	--	--
			00935	00009	----------	C.3.4.4	--	--	--
			01697	00001	----------	C.3.4.4	--	--	--
	Blessey, Ann		01887	00001	----------	C.3.4.4	--	--	--
	Blessey, Mayor Gerald	City of Biloxi	01686	00001	----------	C.3.4.4	--	--	--
	Blessey, Mayor Gerald		02254	00001	RN	C.7.4.2	--	--	--
	Bograd, Jessie		01863	00001	----------	C.3.4.4	--	--	--
	Boland, Mrs. Michael J.		01618	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01618	00002	----------	C.2.4.1	--	--	--
	Boland, Mike		01619	00001	----------	C.3.4.4	--	--	--
	Boland, Molly		01620	00001	----------	C.3.4.4	--	--	--
	Boland, Jon		01622	00001	----------	C.3.4.4	--	--	--
	Bolen, Jr., James E.		01751	00001	----------	C.3.4.4	--	--	--
			01751	00002	RN	C.5.11	--	--	--
			01751	00003	RN	C.5.1	C.7.2.8	--	--
			01751	00004	RN	C.7.3	--	--	--
			01751	00005	----------	C.3.4.4	--	--	--
	Bossier, Mollie		00972	00001	----------	C.3.4.4	--	--	--
	Bossier, Regina	Christ Episcopal Day School	01665	00001	----------	C.3.4.4	--	--	--
	Bossier, Regina		01667	00001	----------	C.3.4.4	--	--	--
	Boushay, Kim		00983	00001	----------	C.3.4.4	--	--	--
	Bowman, Teresa		01898	00001	----------	C.3.4.4	--	--	--
	Bowman, Calvin D.		01899	00001	----------	C.3.4.4	--	--	--
	Bowman, Raymond I.		01915	00001	----------	C.3.4.4	--	--	--
	Boyll, Jamie		01035	00001	----------	C.3.4.4	--	--	--
			01035	00002	RN	C.5.7	C.4.1.1.5	--	--
			01035	00003	RN	C.4.3	--	--	--
			01035	00004	RN	C.7.4.1	C.6.4	--	--
			01035	00005	RN	C.7.4	--	--	--
			01035	00006	----------	C.2.4.1	--	--	--
			01035	00007	----------	C.2.4.1	--	--	--
			01035	00008	RN	C.6.5	--	--	--
			01035	00009	RN	C.5.1	C.5.11	--	--
			01035	00010	----------	C.2.3.3	--	--	--
			01035	00011	----------	C.2.4.1	--	--	--
			01035	00012	----------	C.2.5.1	--	--	--
			01035	00013	----------	C.3.4.4	--	--	--
			01035	00014	RN	C.4.3	C.7.2.8	--	--
	Brackeen, Charlie D.	State of MS Military Dept	01301	00002	----------	C.3.2	--	--	--
			01301	00003	----------	C.3.1.2	--	--	--
			01301	00004	----------	C.2.3	--	--	--
			01301	00006	----------	C.3.4.3	--	--	--
			01301	00008	RN	C.7.2.8	--	--	--
			01301	00009	----------	C.2.4.1	--	--	--
			01301	00010	----------	C.3.1.2	--	--	--
			01301	00011	RN	C.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01301	00012	----------	C.2.3.2	--	--	--
			01301	00031	----------	C.6.4	--	--	--
			01301	00032	----------	C.2.8.2	--	--	--
	Braun, Taleta Gayle	Braun & Co. Realtors	01668	00001	RN	C.4.1.1.5	C.3.2	--	--
	Breal, B. J.		01876	00001	----------	C.3.4.4	--	--	--
	Brooks, Sarah		01787	00001	----------	C.2.8.2	--	--	--
			01787	00002	----------	C.3.1.2	--	--	--
	Brown, Dr. Brenda		01750	00001	RN	C.4.3	--	--	--
	Brown, Stephanie		02016	00001	----------	C.3.4.4	--	--	--
	Bryant, Candace I.		01754	00001	----------	C.2.1.1	--	--	--
	Bryant, William Rae		01783	00001	----------	C.3.4.4	--	--	--
	Buchanan, Michael		01774	00001	----------	C.3.1.2	--	--	--
	Buchanan, Jennifer		01862	00001	----------	C.3.4.4	--	--	--
	Bullard, Bettie Posey		01765	00001	----------	C.3.4.4	--	--	--
	Burgess, R. M.		01616	00001	----------	C.3.4.4	--	--	--
	Burke, John W.		02025	00001	----------	C.3.4.4	--	--	--
	Bush, Catherine		00992	00001	RN	C.6.3	C.5.4	--	--
	Bush, Katherine P.		01640	00001	RN	C.5.4	C.6.3	C.3.4.3	--
	Byrd, Gail Hinton		01872	00001	----------	C.3.4.4	--	--	--
	Calhoun, Dr. Joanne P.		02047	00001	----------	C.3.4.4	--	--	--
	Calhoun, Joseph W.		02048	00001	----------	C.2.8.2	--	--	--
	Callim, Dorothy M.		02018	00001	----------	C.3.1.2	--	--	--
	Cameron, Mack	Office of the Attny General	01029	00001	----------	C.6.1	--	--	--
			01029	00002A	----------	C.2.1.1	--	--	--
			01029	00002B	----------	C.2.1.5	--	--	--
			01029	00003	----------	C.2.1.1	--	--	--
			01029	00004	RN	C.5.1	--	--	--
			01029	00005	----------	C.3.4.3	--	--	--
			01029	00006	----------	C.3.4.1	--	--	--
			01029	00007	----------	C.3.4.4	--	--	--
	Cameron, Mack		01605	00001	----------	C.6.1	--	--	--
			01605	00002	----------	C.2.3.3	--	--	--
			01605	00002A	----------	C.2.1.1	--	--	--
			01605	00002B	----------	C.2.1.5	--	--	--
			01605	00003	----------	C.2.1.1	--	--	--
			01605	00004	RN	C.5.1	--	--	--
			01605	00005A	----------	C.3.4.3	--	--	--
			01605	00005B	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Canizaro, Robert H.	AIA	01679	00001	----------	C.3.4.4	--	--	--
	Caranna, Cono		00938	00001	----------	C.3.4.4	--	--	--
			00938	00002	----------	C.3.1.2	--	--	--
			00938	00003	----------	C.3.4.4	--	--	--
	Carter, Amanda		01878	00001	----------	C.3.4.4	--	--	--
	Carter, Claudia		01879	00001	RN	C.5.1	--	--	--
	Carter, Mary F.		01937	00001	----------	C.3.4.4	--	--	--
	Cates, Arlene		01922	00001	----------	C.3.1.2	--	--	--
	Chipley, Dixie Wright		00979	00001	----------	C.3.4.4	--	--	--
	Chipley, Robert		00986	00001	----------	C.3.4.4	--	--	--
	Clement, Sheri		01798	00001	----------	C.3.1.2	--	--	--
	Cleveland, Mr. & Mrs Milton		01782	00001	----------	C.3.4.4	--	--	--
	Cochran, Senator Thad	CAND	01661	00001	----------	C.3.4.4	--	--	--
	Coffey, Dovin		00964	00001	----------	C.3.1.2	--	--	--
			00964	00002	----------	C.3.1.2	--	--	--
			00964	00003	----------	C.3.1.2	--	--	--
	Cole, Dorothy		00996	00001	----------	C.3.4.4	--	--	--
			00996	00002	RN	C.7.4	--	--	--
			00996	00003	RN	C.3.2	--	--	--
			00996	00004	RN	C.7.4	C.4.1.5	--	--
			00996	00005	RN	C.4.1.5	--	--	--
			00996	00006	RN	C.7.4.2	C.5.1	--	--
			00996	00007	----------	C.2.4.1	--	--	--
			00996	00008	RN	C.7.4.1	--	--	--
			00996	00009	RN	C.4.1.5	C.7.4	--	--
			00996	00010	----------	C.3.4.4	--	--	--
			00996	00011	----------	C.3.1.1	--	--	--
			00996	00012	----------	C.3.4.3	--	--	--
			00996	00013	RN	C.7.1.2	--	--	--
			00996	00014	RN	C.6.2	--	--	--
			00996	00015	----------	C.3.1.1	--	--	--
			00996	00016	----------	C.2.1.1	--	--	--
			00996	00017	RN	C.7.2.2	C.7.4.2	--	--
			00996	00018	RN	C.5.8	--	--	--
			00996	00019	RN	C.5.3	C.5.6	C.5.1	--
	Cole, Bonnie		01003	00001	----------	C.2.1.1	--	--	--
	Cole, Dr. Edwin		01022	00001	RN	C.4.1.3.5	--	--	--
			01022	00002	RN	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01022	00003	RN	C.4.1.1.5	--	--	--
			01022	00004	RN	C.7.4.2	--	--	--
			01022	00005	RN	C.7.2.8	--	--	--
	Cole, Bonnie		01323	00001	RN	C.7.2.3	--	--	--
			01323	00002	RN	C.7.4	--	--	--
			01323	00003	RN	C.7.2.3	--	--	--
	Cole, Dorothy G.	Perry County CAND	01282	00001	----------	C.3.4.4	--	--	--
			01282	00002	RN	C.3.2	--	--	--
	Cole, Dorothy G.		01636	00001	RN	C.4.1.3.5	--	--	--
			01636	00002	RN	C.3.2	--	--	--
			01636	00003	RN	C.4.1.5	C.7.4	--	--
			01636	00004	RN	C.4.1.5	--	--	--
			01636	00005	RN	C.7.4.2	C.5.1	--	--
			01636	00006	RN	C.7.3	--	--	--
			01636	00007	RN	C.7.4	--	--	--
			01636	00008	RN	C.4.1.5	--	--	--
			01636	00009	----------	C.3.1.2	--	--	--
			01636	00010	----------	C.3.4.3	--	--	--
			01636	00011	----------	C.3.1.2	--	--	--
			01636	00012	RN	C.7.1.2	--	--	--
			01636	00013	RN	C.6.2	--	--	--
			01636	00014	----------	C.3.1.1	--	--	--
			01636	00015	----------	C.2.1.5	--	--	--
			01636	00016	RN	C.7.2.2	C.7.4.2	--	--
			01636	00017	RN	C.5.8	--	--	--
			01636	00018	RN	C.5.3	C.5.1	C.5.6	--
			01636	00019	RN	C.5.1	--	--	--
			01636	00020	RN	C.7.4.5	--	--	--
			01636	00021	RN	C.4.1	--	--	--
			01636	00021A	----------	C.2.3	C.4.1	--	--
			01636	00021B	----------	C.2.3.1	C.4.1	--	--
			01636	00022	----------	C.3.4.4	--	--	--
	Collins, Ken		01942	00001	----------	C.3.4.4	--	--	--
	Collins, Stephen F.		02001	00001	----------	C.3.4.4	--	--	--
	Collins, Gloria C.		02002	00001	----------	C.3.4.4	--	--	--
	Collins, Terese P.		02020	00001	----------	C.2.8.1	C.3.4.4	--	--
			02020	00001A	----------	C.3.4.4	--	--	--
			02020	00001B	----------	C.2.8.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Collins, Daniel G.		02023	00001	----------	C.3.1.2	--	--	--
			02023	00002	----------	C.2.4.1	--	--	--
			02023	00003	----------	C.3.1.2	--	--	--
	Collins, Joseph		02026	00001	----------	C.3.1.2	--	--	--
	Comeaux, Audry		01892	00001	----------	C.3.4.4	--	--	--
	Corban/Blackwell, L. C./ Leonard	Harrison County Bar Assoc.	01693	00001	----------	C.3.4.4	--	--	--
	Cousins, Muriel M.		02059	00001	----------	C.3.4.4	--	--	--
	Covington, Steve		00962	00001	----------	C.3.4.4	--	--	--
			00962	00002	----------	C.2.3.3	--	--	--
			00962	00003	----------	C.2.1.1	--	--	--
			00962	00004	----------	C.3.4.4	--	--	--
	Cox, Mrs. Charles M.		01855	00001	----------	C.3.1.2	--	--	--
	Cox, C. M.		02036	00001	----------	C.3.4.4	--	--	--
	Crotts, Lamar M.		00644	00001	----------	C.3.4.4	--	--	--
			00644	00002	RN	C.5.1	C.5.11	--	--
	Crowell, Jr., Robert		01755	00001	----------	C.3.4.4	--	--	--
	Cruthirds, Mark		01839	00001	----------	C.3.4.4	--	--	--
	Cruthirds, Jamie L.		01840	00001	----------	C.3.4.4	--	--	--
	Cumbest/Littlejohn, Lum R./Clark	MS Assoc. of Supervisors	01678	00001	----------	C.3.4.4	--	--	--
	Curtis, John S.		01654	00001	----------	C.3.4.4	--	--	--
	Daneson, Mrs. William		01965	00001	----------	C.2.4.1	--	--	--
			01965	00002	----------	C.3.4.4	--	--	--
	Daugherty, Yvonne		01810	00001	----------	C.3.4.4	--	--	--
	Davenport, Shirley H.		01894	00001	----------	C.3.1.2	--	--	--
	David, Monte J.		01847	00001	----------	C.3.4.4	--	--	--
			01847	00002	----------	C.2.8.2	--	--	--
	Davies, Agnes	League of Women Voters	01684	00001	----------	C.3.4.4	--	--	--
	Davis, O. J.		00982	00001	RN	C.4.1.1.5	--	--	--
			00982	00002	RN	C.5.11	--	--	--
			00982	00003	----------	C.3.1.2	--	--	--
			00982	00004	----------	C.3.1.2	--	--	--
			00982	00005	----------	C.2.8.2	--	--	--
	Davis, Charles		00991	00001	----------	C.3.4.4	--	--	--
			00991	00002	RN	C.7.3	--	--	--
			00991	00003	RN	C.7.3	--	--	--
			00991	00004	RN	C.7.3	--	--	--
			00991	00005	RN	C.7.3	--	--	--
			00991	00006	RN	C.7.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Davis, Clyde A.		01757	00001	----------	C.2.3	--	--	--
			01757	00001A	----------	C.3.4.4	--	--	--
			01757	00001B	----------	C.2.8.2	--	--	--
			01757	00001C	----------	C.2.8.1	--	--	--
	Dedeaux-Jones, Kim		02037	00001	----------	C.3.1.2	--	--	--
	Dehmer, Dorothy Coco		01614	00001	----------	C.3.4.4	--	--	--
	Dewitt, Wendy	Richton Elementary School	01210	00001	----------	C.3.4.4	--	--	--
	Dix, Frank		01974	00001	----------	C.3.4.4	--	--	--
	Dobson, Dorothy F.		01880	00001	RN	C.7.2.7	C.7.2.8	--	--
	Dollar, Dennis		00945	00001	----------	C.2.1.2	--	--	--
			00945	00002	----------	C.3.4.4	--	--	--
			00945	00003	----------	C.2.4.1	--	--	--
			00945	00004	----------	C.3.1.2	--	--	--
			00945	00005	----------	C.3.1.2	--	--	--
	Domino, S. S.		01997	00001	----------	C.3.4.4	--	--	--
	Dossett, Dorothy		00368	00001	----------	C.2.4.1	--	--	--
			00368	00002	----------	C.3.1.2	--	--	--
			00368	00003	----------	C.3.1.2	--	--	--
	DuBois, Mr. & Mrs. B. E.		01760	00001	RN	C.7.2.7	--	--	--
	Dubaz, Gary A.		01976	00001	----------	C.3.4.4	--	--	--
	Dubaz, Stephen		01977	00001	----------	C.3.1.2	--	--	--
	Dubrusson, Wanda		01655	00001	----------	C.3.1.2	--	--	--
	Duffy, Mark W.		01856	00001	----------	C.3.1.2	--	--	--
	Duffy, Mrs. Rhonda		01857	00001	RN	C.7.4.4	--	--	--
	Edgeworth, Lucille E.		01102	00001	----------	C.3.4.4	--	--	--
	Edwards, Tara	Richton Elementary School	01218	00001	----------	C.3.4.4	--	--	--
	Egerton, Charles		00981	00001	RN	C.5.8	--	--	--
	Eldridge, Martha		01795	00001	----------	C.3.4.4	--	--	--
	Ellery, Mitchell	MS State Representative	01660	00001	----------	C.3.4.4	--	--	--
	Ellington, Win		01617	00001	----------	C.3.4.4	--	--	--
	Ellytor, Cleta Elaine		01615	00001	----------	C.3.4.4	--	--	--
	Evans, Mary L.		00973	00002	RN	C.4.1.1.6	--	--	--
			00973	00003	----------	C.3.1.2	--	--	--
			00973	00004	RN	C.4.1.2	C.5.1	C.7.2.8	--
			00973	00005	----------	C.3.4.4	--	--	--
			00973	00006	----------	C.3.4.4	--	--	--
			00973	00007	----------	C.3.1.2	--	--	--
			00973	00008	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Evans, Mrs. Sampson		02019	00001	----------	C.3.4.4	--	--	--
	Farris, Scott		00226	00001	----------	C.3.4.4	--	--	--
	Fears, Beulah Bessie		01753	00001	----------	C.3.1.2	--	--	--
	Fears, Robert O.		01761	00001	----------	C.3.4.4	--	--	--
	Ferrill, Ssan		02060	00001	----------	C.3.4.4	--	--	--
	Findeiser, Audrey A.		01790	00001	----------	C.3.4.4	--	--	--
	Finn, Donald F.X.		00129	00001	----------	C.2.1.1	--	--	--
			00129	00002	----------	C.2.2.1	--	--	--
			00129	00003	----------	C.2.3.1	--	--	--
			00129	00004	----------	C.2.3.1	--	--	--
			00129	00005	----------	C.2.4.1	--	--	--
			00129	00006	RN	C.4.1.4	--	--	--
			00129	00007	RN	C.4.1.1.5	--	--	--
			00129	00008	RN	C.4.1.1.8	--	--	--
			00129	00009	RN	C.4.1.3.5	--	--	--
			00129	00010	RN	C.7.4	--	--	--
			00129	00011	----------	C.2.3.1	--	--	--
			00129	00012	----------	C.2.3.1	--	--	--
			00129	00013	RN	C.4.1.1.5	--	--	--
	Finn, Donald F. X.		01028	00001	----------	C.2.1.1	--	--	--
			01028	00002	----------	C.2.1.1	--	--	--
			01028	00003	----------	C.2.1.1	--	--	--
			01028	00004	----------	C.2.1.1	--	--	--
			01028	00005	----------	C.2.2.1	--	--	--
			01028	00006	----------	C.3.1.1	--	--	--
			01028	00007A	----------	C.2.2.1	--	--	--
			01028	00007B	----------	C.2.1.2	--	--	--
			01028	00008	RN	C.4.1	--	--	--
			01028	00009	RN	C.7.3	--	--	--
			01028	00010	RN	C.7.3	--	--	--
			01028	00010A	----------	C.3.4.2.2	--	--	--
			01028	00010B	RN	C.7.3	--	--	--
			01028	00011	RN	C.4.1.1.5	--	--	--
			01028	00012	RN	C.4.1.1.8	--	--	--
			01028	00013	RN	C.4.1.3.5	--	--	--
			01028	00014	----------	C.3.4.2.1	--	--	--
			01028	00015	RN	C.7.4	--	--	--
			01028	00016	----------	C.2.1.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01028	00017	----------	C.2.3.1	--	--	--
			01028	00019	----------	C.3.4.3	--	--	--
			01028	00020	----------	C.2.3.1.2	--	--	--
			01028	00021	----------	C.2.1.1	--	--	--
	Finn, Donald F. X.		01604	00001	----------	C.2.1.1	--	--	--
			01604	00002	----------	C.2.1.1	--	--	--
			01604	00003	----------	C.2.1.1	--	--	--
			01604	00004	----------	C.3.1.1	--	--	--
			01604	00005	----------	C.3.1.1	--	--	--
			01604	00006A	----------	C.2.2.1	--	--	--
			01604	00006B	----------	C.2.1.2	--	--	--
			01604	00007	RN	C.4.1	--	--	--
			01604	00008	----------	C.2.4.1	--	--	--
			01604	00009	RN	C.7.3	--	--	--
			01604	00010A	RN	C.4.1.1.5	--	--	--
			01604	00010B	RN	C.4.1.1.8	--	--	--
			01604	00010C	RN	C.4.1.3.5	--	--	--
			01604	00011	RN	C.7.4	--	--	--
			01604	00012	RN	C.7.4	--	--	--
			01604	00013	RN	C.7.4	--	--	--
			01604	00014	----------	C.2.3.1	--	--	--
			01604	00015	RN	C.4.1	--	--	--
			01604	00016	----------	C.2.3.1	--	--	--
			01604	00017	RN	C.5.6	C.4.1.1.5	--	--
			01604	00018	----------	C.2.1.1	--	--	--
	Fisher, Larry		01026	00001	----------	C.2.1.1	--	--	--
	Fisher, Larry J.		01603	00001	----------	C.2.1.1	--	--	--
	Fitch, Richard R.		01891	00001	----------	C.3.4.4	--	--	--
	Fitch, Barbara Jo		01893	00001	----------	C.3.4.4	--	--	--
	Fitzpatrick, MaryJoan G.		01653	00001	----------	C.3.4.4	--	--	--
			01653	00002	----------	C.5.7	--	--	--
	Flake, Mrs. Lilly Pearl		01865	00001	----------	C.3.1.2	--	--	--
	Flint, Stan		00937	00001	----------	C.2.1.1	--	--	--
			00937	00002	----------	C.2.1.1	C.2.1.2	--	--
			00937	00003A	----------	C.3.4.4	--	--	--
			00937	00003B	----------	C.3.4.4	--	--	--
			00937	00004	RN	C.4.1	--	--	--
			00937	00006	RN	C.3.1.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Flint, Stan		00987	00001	----------	C.3.4.4	--	--	--
			00987	00002	----------	C.3.1.2	--	--	--
			00987	00003	----------	C.3.4.4	--	--	--
			00987	00004	----------	C.3.4.4	--	--	--
			00987	00005	----------	C.3.4.4	--	--	--
			00987	00007	RN	C.7.3	--	--	--
			00987	00008	----------	C.3.4.4	--	--	--
			00987	00009	RN	C.4.3	--	--	--
			00987	00010	RN	C.7.4.2	--	--	--
			00987	00011	RN	C.7.4.2	--	--	--
			00987	00012	RN	C.4.1.3.5	--	--	--
			00987	00013	----------	C.3.1.1	--	--	--
			00987	00014	----------	C.2.1.1	--	--	--
			00987	00015	RN	C.4.1.1.5	--	--	--
			00987	00016	RN	C.7.3	--	--	--
			00987	00017	----------	C.2.1.1	--	--	--
			00987	00018	----------	C.2.1.1	--	--	--
			00987	00019	----------	C.2.1.1	--	--	--
	Flint, Stanley D.	CAND	01675	00001	----------	C.3.1.2	--	--	--
			01675	00002	----------	C.3.1.1	--	--	--
	Flint, Stan		01705	00001	----------	C.3.8	--	--	--
	Flint, Stan		01706	00001	----------	C.3.4.4	--	--	--
	Flint, Stan		01708	00001	----------	C.2.1.1	--	--	--
	Flint, Stan		01712	00001	----------	C.2.8.2	--	--	--
	Flint, Stanley D.	MS House of Rep.	01671	00001	----------	C.2.1.2	--	--	--
	Flint, Stan	CAND	01713	00001	----------	C.2.8.2	--	--	--
	Flint, Stan		01715	00001	----------	C.2.8.2	--	--	--
	Flint/Williams, Candace/Mitzi		01674	00001	----------	C.3.4.4	--	--	--
	Ford, Robert		00960	00001	----------	C.3.4.4	--	--	--
			00960	00002	----------	C.3.4.4	--	--	--
			00960	00003	----------	C.2.4.1	--	--	--
			00960	00004	RN	C.5.10	--	--	--
			00960	00005	----------	C.2.1.1	--	--	--
			00960	00006	----------	C.2.8	--	--	--
			00960	00007	RN	C.4.3	--	--	--
			00960	00008A	----------	C.2.1.2	C.2.1.1	--	--
			00960	00008B	RN	C.4.3	--	--	--
	Ford, Twila		01789	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Ford, Jr., Robert		01797	00001	----------	C.3.1.2	--	--	--
	Forenand, Diane L.		01920	00001	----------	C.3.4.4	--	--	--
	Forsythe, Ron	Mississippi E & T Board	01727	00001	----------	C.2.8.2	--	--	--
	Forsythe, Ron		01728	00001	----------	C.2.8.2	--	--	--
	Forsythe, Ron		01732	00001	----------	C.2.8.2	--	--	--
	Fortenberry, Annie V.		01982	00001	----------	C.3.4.4	--	--	--
	Foshee, Jamie and Linda		02705	00001	----------	C.3.1.2	--	--	--
			02705	00002	----------	C.3.4.4	--	--	--
	Foster, James T.		01986	00001	----------	C.3.4.4	--	--	--
	Foster, Patti		01988	00001	----------	C.3.1.2	--	--	--
	Foushee, Jr., Mrs. William H.		01613	00001	----------	C.3.4.4	--	--	--
	Franck, Dorothy Walker		01621	00001	----------	C.3.4.4	--	--	--
	Franks, Jim		01796	00001	----------	C.3.4.4	--	--	--
	Franz, Becky		01885	00001	----------	C.3.4.4	--	--	--
	Gallary, Wayne L.		01838	00001	----------	C.2.4.2	--	--	--
	Gardner, Joe		01890	00001	RN	C.5.1	C.6.1	C.6.5	C.7.2.8
	Garrett, Connie M.		01947	00001	----------	C.3.4.4	--	--	--
	Gast, Mr. & Mrs. Fred C.		01946	00001	----------	C.3.4.4	--	--	--
	Gaston, C. D.	MS Psychologist Association	01691	00001	----------	C.3.4.4	--	--	--
			01691	00002	----------	C.3.1.2	--	--	--
			01691	00003	----------	C.3.4.4	--	--	--
	George, Critz H.	Office of Waste Isolation	01741	00001	----------	C.2.8.2	--	--	--
	Gibbens/Price, Margaret C./Helene C	Hancock Cty Historical Society	01692	00001	----------	C.3.4.4	--	--	--
	Gilbert, Valerie		01874	00001	----------	C.3.4.4	--	--	--
	Gilliam, Dr. Scott & Evelyn		02709	00001	----------	C.3.1.2	--	--	--
			02709	00002	----------	C.3.1.2	--	--	--
	Gillis, Walter		01027	00001	----------	C.3.4.4	--	--	--
	Goarskill, Kayleey	Richton Elementary School	01214	00001	----------	C.3.4.4	--	--	--
	Gollot, Senator	U. S. Senate	01699	00001	----------	C.3.4.4	--	--	--
	Gonzalez, Jennifer Crowell		01752	00001	----------	C.3.4.4	--	--	--
	Gottsche, Joanne M.		01975	00001	----------	C.3.1.2	--	--	--
	Goundas, Joy Harrison		01829	00001	----------	C.3.4.4	--	--	--
	Graley, Carolyn		02024	00001	----------	C.3.4.4	--	--	--
	Green, Janet		00977	00001	----------	C.3.1.2	--	--	--
	Green, John		01024	00001	RN	C.7.3	--	--	--
			01024	00002	----------	C.3.4.4	--	--	--
	Green, John	DOE & DOT Nuclear Waste Division	01601	00001	----------	C.2.8.2	--	--	--
			01601	00002	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Green, John	DOE and Transportation	01745	00001	----------	C.2.8.2	--	--	--
	Green, John	Dept Energy and Transportation	00505	00001	RN	C.4.1.5	--	--	--
			00505	00002	RN	C.4.1.5	--	--	--
			00505	00003	RN	C.4.1.5	--	--	--
			00505	00004	RN	C.4.1.5	--	--	--
			00505	00005	RN	C.4.1.5	--	--	--
			00505	00006	----------	C.2.7	--	--	--
	Green, John	E & T Board, MS	01724	00001	----------	C.2.8.2	--	--	--
	Green, John	MS Dept Energy & Transportation	02696	00001	RN	C.4.1.1.5	--	--	--
			02696	00002	RN	C.5.8	--	--	--
			02696	00003	RN	C.4.1.3.2	--	--	--
	Green, John	Mississippi E & T Board	01722	00001	----------	C.2.8.2	--	--	--
	Green, John		01733	00001	----------	C.2.8.2	--	--	--
	Griffin, Priscilla O.		01868	00001	----------	C.3.4.4	--	--	--
	Gutierrez, Paige		00939	00001	----------	C.3.4.4	--	--	--
			00939	00002	----------	C.3.1.2	--	--	--
	Hagin, James J.		00386	00001	RN	C.5.1	C.5.11	--	--
			00386	00002	RN	C.7.4	--	--	--
			00386	00003	RN	C.3.1.3	--	--	--
			00386	00004	RN	C.7.4.1	--	--	--
	Hague, Douglas and Renee		01944	00001	----------	C.3.1.2	--	--	--
	Haig, Doug		00957	00001	----------	C.3.4.4	--	--	--
			00957	00002	----------	C.3.4.4	--	--	--
	Hall, John		01823	00001	----------	C.3.4.4	--	--	--
	Hall, Representative L.	MS Legislature	01658	00001	----------	C.2.8.2	--	--	--
	Halthu, Cynthia R.		01833	00001	----------	C.3.4.4	--	--	--
	Hamilton, Pam		01023	00001	----------	C.3.1.2	--	--	--
			01023	00002	----------	C.2.1.1	--	--	--
			01023	00003	----------	C.3.4.4	--	--	--
	Hamilton, Clarence W.		01835	00001	----------	C.3.4.4	--	--	--
	Hammett, Elisabeth H.		01961	00001	----------	C.3.4.4	--	--	--
	Hammond, William T. & Lois B.		01959	00001	RN	C.5.1	--	--	--
			01959	00001A	----------	C.5.1	--	--	--
			01959	00001B	----------	C.2.8.2	--	--	--
	Hand, Charles Ray		01786	00001	----------	C.3.4.4	--	--	--
	Hansen, Dorothy		01842	00001	----------	C.3.4.4	--	--	--
	Hansen, William Mark		01844	00001	----------	C.3.4.4	--	--	--
	Harris, Annette		01816	00001	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Harris, Bill	The Biloxi Jaycees	01690	00001	----------	C.3.4.4	--	--	--
	Harrison, Timothy M.		01828	00001	----------	C.3.4.4	--	--	--
	Havens, Lynn	CAND	01673	00001	----------	C.3.4.4	--	--	--
	Heller, Earl G.		01801	00001	----------	C.2.8.2	--	--	--
	Herrell, Vicki		01030	00001	----------	C.3.4.3	--	--	--
			01030	00002	RN	C.5.3	--	--	--
			01030	00002A	RN	C.7.4.1	--	--	--
			01030	00002B	RN	C.5.7	--	--	--
			01030	00002C	----------	C.2.4.4	--	--	--
			01030	00002D	----------	C.2.4.4	--	--	--
			01030	00003	----------	C.2.3.1	--	--	--
	Herrell, Vicki		01606	00001	----------	C.3.4.3	--	--	--
			01606	00003	RN	C.5.3	--	--	--
			01606	00004	RN	C.7.4.1	--	--	--
			01606	00005	RN	C.5.7	--	--	--
			01606	00006	----------	C.3.4.4	--	--	--
			01606	00007	----------	C.3.4.4	--	--	--
	Hickey, Sylvia		01764	00001	----------	C.3.4.4	--	--	--
	Hicks, Swink		01032	00001	RN	C.7.2.1	--	--	--
			01032	00002	RN	C.7.2.2	--	--	--
			01032	00003	RN	C.7.2.2	--	--	--
			01032	00004	RN	C.6.3	--	--	--
			01032	00005	RN	C.5.1	C.7.2.8	--	--
			01032	00006	RN	C.5.11	--	--	--
			01032	00007	RN	C.5.1	--	--	--
			01032	00008	RN	C.5.7	--	--	--
			01032	00009	----------	C.3.1.2	--	--	--
			01032	00010	RN	C.7.2	--	--	--
			01032	00011	RN	C.7.4.1	--	--	--
			01032	00012	RN	C.7.3	--	--	--
			01032	00013	RN	C.7.3	--	--	--
	Hight, Anna		02015	00001	----------	C.3.1.2	--	--	--
	Hilliard, Barry A.		01785	00001	----------	C.3.4.4	--	--	--
	Hinton, Paige		01004	00001	RN	C.5.11	--	--	--
	Hinton, Rev. Archie		01020	00001	----------	C.3.4.4	--	--	--
			01020	00002	----------	C.3.4.4	--	--	--
	Hinton, Paige		01657	00001	----------	C.3.1.2	--	--	--
	Hobbs, Richard H.		01802	00001	RN	C.5.11	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Hokinker, Jeannine		00969	00001	----------	C.3.4.4	--	--	--
			00969	00002	----------	C.3.1.2	--	--	--
			00969	00003	----------	C.2.3.2	--	--	--
			00969	00004	----------	C.3.4.4	--	--	--
	Holt, Maurite E.		01808	00001	----------	C.3.4.4	--	--	--
	Horgan, Dana		01905	00001	----------	C.3.4.4	--	--	--
	Howell, Arlie		01726	00001	----------	C.2.8.2	--	--	--
	Howell, Arlie		01742	00001	----------	C.2.8.2	--	--	--
	Howell, Arlie	Mississippi Consultant	01721	00001	----------	C.2.8.2	--	--	--
	Howell, Arlie		01729	00001	----------	C.2.8.2	--	--	--
	Howell, Arlie		01730	00001	----------	C.2.8.2	--	--	--
	Howell, Arlie	Mississippi State	01718	00001	----------	C.2.8.2	--	--	--
	Huddleston, Joy		01805	00001	----------	C.2.3.1	--	--	--
			01805	00002	----------	C.2.8.2	--	--	--
	Huddleston, Shira		01806	00001	RN	C.7.4	--	--	--
	Hudson, Tom	Sierra Club, Mississippi Chapter	01272	00001	RN	C.5.11	--	--	--
			01272	00002	RN	C.4.1.1.5	--	--	--
			01272	00003	RN	C.5.7	C.4.1.1.5	--	--
			01272	00004	RN	C.5.7	--	--	--
			01272	00005	RN	C.4.1.1.3	--	--	--
			01272	00006	RN	C.4.1.1.2	--	--	--
			01272	00007	RN	C.5.8	--	--	--
			01272	00008	RN	C.4.1.1.6	--	--	--
			01272	00009	----------	C.2.4.3	--	--	--
			01272	00010	RN	C.7.1.1.8	C.7.2.8	--	--
			01272	00011	RN	C.7.1.1.8	C.7.2.8	--	--
			01272	00012	RN	C.4.3	C.7.1.1.8	C.7.2.8	--
			01272	00013	RN	C.4.3	--	--	--
			01272	00014	RN	C.5.11	--	--	--
			01272	00015	RN	C.5.1	C.5.11	--	--
			01272	00016	----------	C.3.4.1	--	--	--
			01272	00017	----------	C.3.4.1	--	--	--
			01272	00018	----------	C.3.4.1	--	--	--
			01272	00019	RN	C.5.6	--	--	--
			01272	00020	RN	C.4.3	C.4.1.1.5	--	--
			01272	00021	RN	C.4.1.5	--	--	--
			01272	00022	RN	C.7.4.2	--	--	--
			01272	00023	RN	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01272	00024	RN	C.7.4.3	--	--	--
			01272	00025	RN	C.7.4.3	--	--	--
			01272	00026	RN	C.7.4.3	--	--	--
			01272	00027	RN	C.7.4.3	--	--	--
			01272	00028	RN	C.7.4.3	--	--	--
			01272	00029	RN	C.7.4.3	--	--	--
			01272	00030	RN	C.7.4.3	--	--	--
			01272	00031	RN	C.7.4.4	--	--	--
			01272	00032	RN	C.6.1	--	--	--
			01272	00033	RN	C.6.1	--	--	--
			01272	00034A	----------	C.3.1.1	--	--	--
			01272	00034B	RN	C.6.1	--	--	--
			01272	00035	RN	C.6.3	--	--	--
			01272	00036	RN	C.6.3	--	--	--
			01272	00037	RN	C.6.3	--	--	--
			01272	00038	RN	C.7.1.2	--	--	--
			01272	00039	RN	C.7.1.2	--	--	--
			01272	00040	RN	C.7.3	--	--	--
			01272	00041	RN	C.7.1.1.8	C.7.2	--	--
			01272	00042	RN	C.7.2	--	--	--
			01272	00043	RN	C.4.1.3.2	C.7.2	--	--
			01272	00044	RN	C.4.1.3.2	C.7.2	--	--
	Hughes, Ellise H.		02051	00001	----------	C.3.4.4	--	--	--
	Hughes, Inez		02058	00001	----------	C.3.4.4	--	--	--
	Humphrey, Cindy	Westinghouse	01748	00001	----------	C.2.8.2	--	--	--
	Humphries, Margaret		01831	00001	----------	C.3.4.4	--	--	--
	Humphries, John		01834	00001	----------	C.3.4.4	--	--	--
	Hunt, Dianne R.		01900	00001	----------	C.3.1.2	--	--	--
	Hussey, Phyllis		02003	00001	----------	C.3.4.4	--	--	--
	Hutto,Jr., Andrew Clifton		01943	00001	----------	C.2.1.2	--	--	--
	Ingram, John		01987	00001	----------	C.3.4.4	--	--	--
	Iverson, Eric		01998	00001	----------	C.3.4.4	--	--	--
	Jackson, Lenn		01624	00001	----------	C.3.4.4	--	--	--
	Jacquet, Janie		01824	00001	----------	C.3.4.4	--	--	--
	John, William E.		02041	00001	----------	C.3.1.2	--	--	--
	Johnson, Solon W.		01859	00001	----------	C.3.4.4	--	--	--
	Johnson, Elizabeth M.		01861	00001	----------	C.3.4.4	--	--	--
	Johnston, Juliet		01627	00001	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01627	00002	----------	C.2.4.1	--	--	--
	Johnston, Elta P.	Junior League of Jackson, Inc.	01609	00001	----------	C.3.4.4	--	--	--
			01609	00002	----------	C.2.1.1	--	--	--
			01609	00003	RN	C.5.7	--	--	--
			01609	00004	RN	C.5.7	--	--	--
			01609	00005	RN	C.5.11	--	--	--
			01609	00006	RN	C.4.3	--	--	--
			01609	00007	RN	C.7.4.1	C.6.4	--	--
			01609	00008	RN	C.7.4	--	--	--
			01609	00009	----------	C.2.4.1	--	--	--
			01609	00010	----------	C.2.4.1	--	--	--
			01609	00011	RN	C.6.5	--	--	--
			01609	00012	RN	C.6.5	--	--	--
			01609	00013	RN	C.5.1	C.5.11	--	--
			01609	00014	----------	C.2.3.3	--	--	--
			01609	00015	----------	C.2.4.1	--	--	--
			01609	00016	----------	C.2.5.1	--	--	--
			01609	00018	----------	C.2.7	--	--	--
			01609	00019	----------	C.2.8.3	--	--	--
			01609	00020	RN	C.4.3	--	--	--
			01609	00021	RN	C.4.3	--	--	--
			01609	00022	RN	C.4.1.1.6	--	--	--
			01609	00023	RN	C.4.3	--	--	--
			01609	00024	RN	C.4.3	--	--	--
			01609	00025	----------	C.2.3.2	--	--	--
			01609	00026	RN	C.4.1.1.3	--	--	--
			01609	00027	RN	C.4.1.1.5	--	--	--
			01609	00028	RN	C.7.2.8	--	--	--
			01609	00029	RN	C.4.3	--	--	--
			01609	00030	RN	C.4.3	--	--	--
			01609	00031	----------	C.2.8.2	--	--	--
			01609	00032	----------	C.2.4.1	--	--	--
	Jones, Jayson R.		00970	00001	----------	C.2.1.1	--	--	--
			00970	00002	----------	C.3.4.4	--	--	--
			00970	00003	----------	C.3.4.4	--	--	--
			00970	00004	----------	C.3.4.4	--	--	--
	Jones, Henry		00999	00001	----------	C.3.4.4	--	--	--
	Jones, Dorothy		01014	00001	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01014	00002	RN	C.4.1.3.3	--	--	--
			01014	00003	RN	C.7.1.1.1	--	--	--
			01014	00004	RN	C.6.3	C.7.2.8	--	--
			01014	00005	RN	C.4.1.3.2	--	--	--
	Jones, Frank		01016	00001	----------	C.2.7	--	--	--
			01016	00002	RN	C.4.1.3.3	--	--	--
			01016	00003	RN	C.4.1.3.1	--	--	--
			01016	00004	RN	C.7.4.4	--	--	--
			01016	00005	RN	C.7.4.2	--	--	--
			01016	00006	RN	C.4.1.5.4	--	--	--
			01016	00008	----------	C.2.1.5	--	--	--
	Jones, Doris		01628	00001	----------	C.3.4.4	--	--	--
	Jones, Dorothy		01650	00001	----------	C.2.7	--	--	--
			01650	00002A	RN	C.4.1.3.3	--	--	--
			01650	00002B	RN	C.3.3.1	--	--	--
			01650	00003	RN	C.6.3	C.7.2.8	--	--
			01650	00004	RN	C.4.1.3.2	--	--	--
	Jones, Cecil E.		01771	00001	----------	C.3.4.4	--	--	--
	Jones, JoAnn		01832	00001	----------	C.3.4.4	--	--	--
	Jones, Henry	Richton Elementary School	01216	00001	----------	C.3.4.4	--	--	--
	Jones, Henry		01635	00001	----------	C.3.1.2	--	--	--
	Kallery, Mrs. Easton		01992	00001	----------	C.3.4.4	--	--	--
	Kanady/Shulman, Cathy/Ruth	MS Chapter Sierra Club	01663	00001	----------	C.3.4.4	--	--	--
			01663	00002	----------	C.2.3.3	--	--	--
			01663	00003	----------	C.3.1.2	--	--	--
			01663	00004	RN	C.4.1.1	--	--	--
	Kay, Patty		02028	00001	----------	C.3.4.4	--	--	--
	Kay, Jonathan		02029	00001	----------	C.3.4.4	--	--	--
	Keating, Angela		02035	00001	----------	C.3.4.4	--	--	--
	Keenerly, Amanda		00953	00001	----------	C.3.1.2	--	--	--
			00953	00002	----------	C.3.1.2	--	--	--
	Keller, D. L.	Batelle, Project Mgmt Division	01720	00001	----------	C.2.8.2	--	--	--
	Keller, D. L.		01735	00001	----------	C.2.8.2	--	--	--
	Kennedy, Cynthia		00941	00001A	----------	C.3.1.2	--	--	--
			00941	00001B	RN	C.3.3.2	--	--	--
			00941	00001C	----------	C.2.3.1	--	--	--
	Kennedy, Cynthia	CAND	01676	00001	----------	C.3.4.4	--	--	--
	Kennedy, Cynthia		01709	00001	----------	C.2.8.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Kennedy, Cynthia		01710	00001	----------	C.2.8.2	--	--	--
	Kennedy, Cynthia		01711	00001	----------	C.2.8.2	--	--	--
	Kennedy, Cynthia		01714	00001	RN	C.5.11	--	--	--
	Kennerly, Amanda		01662	00001	----------	C.3.1.2	--	--	--
			01662	00002	----------	C.3.1.2	--	--	--
			01662	00003	----------	C.3.1.2	--	--	--
			01662	00004	----------	C.3.4.4	--	--	--
	Kent, Barbara		02052	00001	----------	C.3.8	--	--	--
	Kerley, W. Joseph		00292	00001	----------	C.3.4.4	--	--	--
	Knight, Rose H.		01769	00001	----------	C.3.4.4	--	--	--
	Knight, Marion C.		02055	00001	----------	C.3.4.4	--	--	--
	Kochtitzky, Bob		00145	00001	RN	C.5.10	--	--	--
	Kohanek, Harriet K.		01670	00001	----------	C.3.4.4	--	--	--
	Kosbab, Dick	Hancock Cty. Chamber of Commerce	01704	00001	----------	C.3.4.4	--	--	--
	Kostmayer, Mrs. Elise		01820	00001	RN	C.7.2.7	C.5.11	--	--
	Kostmayer, Lillian		01929	00001	----------	C.3.4.4	--	--	--
	Kostmayer, Shaun L.		01932	00001	----------	C.2.8.2	--	--	--
	Kostmayer, R. Lee		02046	00001	----------	C.3.1.2	--	--	--
	Kostmayer, Jr., Robert Lee		01931	00001	----------	C.2.6	--	--	--
	Kriuanec, Mr. & Mrs. Joey		01770	00001	----------	C.3.4.4	--	--	--
	LaGrone, Tonette		00946	00001	----------	C.3.4.4	--	--	--
			00946	00002	----------	C.3.4.4	--	--	--
	LaGrone, Don		00947	00001	----------	C.3.1.2	--	--	--
			00947	00002	----------	C.7.3	--	--	--
			00947	00003	RN	C.3.2	--	--	--
			00947	00004	RN	C.6.5	--	--	--
			00947	00005	----------	C.2.4.1	--	--	--
			00947	00006	----------	C.2.5.2	--	--	--
			00947	00007	----------	C.2.4.1	--	--	--
			00947	00008	----------	C.3.4.4	--	--	--
			00947	00009	----------	C.3.4.4	--	--	--
	Landry, Sarah		01871	00001	----------	C.3.4.4	--	--	--
	Lang, Mrs. Charles V.	Oak Park Garden Club	01669	00001	----------	C.3.4.4	--	--	--
	Latimer, Mel		00963	00001	----------	C.3.4.4	--	--	--
			00963	00002	----------	C.3.4.4	--	--	--
			00963	00003	RN	C.5.1	--	--	--
			00963	00004	----------	C.3.4.4	--	--	--
	Lawler, Mrs. Sibyl R.		02009	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Lemon, Fred		00978	00001	----------	C.3.4.4	--	--	--
			00978	00002	----------	C.3.1.2	--	--	--
			00978	00003	RN	C.4.1.2.2	--	--	--
			00978	00004	RN	C.4.1.1.5	--	--	--
			00978	00005	----------	C.3.4.4	--	--	--
			00978	00006	----------	C.3.1.2	--	--	--
			00978	00007	----------	C.3.4.4	--	--	--
	Leslie, Robert C.		01979	00001	----------	C.3.4.4	--	--	--
	Lesso, Fay		00956	00001	----------	C.3.4.4	--	--	--
			00956	00002	----------	C.3.4.4	--	--	--
	Litchfield, Kathy		00169	00001	----------	C.2.8.1	--	--	--
			00169	00002	----------	C.3.4.4	--	--	--
	Litchfield, Norman		00959	00001	----------	C.3.4.4	--	--	--
			00959	00002	----------	C.3.4.4	--	--	--
			00959	00003	----------	C.3.4.4	--	--	--
	Lloyd, Eva		01917	00001	----------	C.3.4.4	--	--	--
	Lofton, Mary Cruso		01767	00001	----------	C.3.4.4	--	--	--
	Loftus, Jeff		01656	00001	----------	C.3.1.2	--	--	--
	Loftus, John B.		01837	00001	----------	C.3.4.4	--	--	--
	Logan, Mrs. S. J.		02017	00001	----------	C.3.1.2	--	--	--
	Longino, Lewis		01939	00001	----------	C.3.4.4	--	--	--
	Lyman, India		01005	00001	----------	C.3.4.4	--	--	--
	Lyman, India		01645	00001	----------	C.3.4.4	--	--	--
	Mallgy, Betty W.		01948	00001	----------	C.3.4.4	--	--	--
	Mann, Carol		01033	00001	----------	C.2.7	--	--	--
			01033	00002	RN	C.5.1	--	--	--
			01033	00003	RN	C.5.2	--	--	--
			01033	00004	RN	C.6.5	--	--	--
			01033	00005	----------	C.2.2	--	--	--
			01033	00006	----------	C.2.4.1	--	--	--
			01033	00007	RN	C.7.4	--	--	--
			01033	00008	----------	C.2.8.3	--	--	--
			01033	00009	----------	C.2.7	--	--	--
			01033	00010	----------	C.3.4.4	--	--	--
	Mann, Carol		01608	00002	RN	C.5.1	--	--	--
			01608	00003	RN	C.5.2	--	--	--
			01608	00004	RN	C.6.5	--	--	--
			01608	00005	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01608	00006	----------	C.2.4.1	--	--	--
			01608	00007	RN	C.7.4	--	--	--
			01608	00008	----------	C.2.8.3	--	--	--
			01608	00009A	----------	C.2.7	--	--	--
			01608	00009B	----------	C.2.7	--	--	--
			01608	00009C	----------	C.2.3.1	--	--	--
			01608	00009D	----------	C.2.1.1	--	--	--
			01608	00009E	----------	C.2.1.1	--	--	--
			01608	00009F	----------	C.2.1.1	--	--	--
			01608	00009G	----------	C.2.1.1	--	--	--
			01608	00009H	----------	C.2.1.1	--	--	--
			01608	00010	----------	C.3.4.4	--	--	--
	Marie, Connie	City of Biloxi	01698	00001	----------	C.3.4.4	--	--	--
	Marino, Frank	Cong. Lungrin Office	01746	00001	----------	C.2.8.2	--	--	--
	Masters, David and Carolyn N.		02706	00001	----------	C.3.4.4	--	--	--
			02706	00002	----------	C.3.4.4	--	--	--
			02706	00003	----------	C.3.1.2	--	--	--
	Mattuiri, Judy C.		01846	00001	----------	C.3.4.4	--	--	--
	Mayfield, Frances		01784	00001	----------	C.3.1.2	--	--	--
	McCall, Dennis Alan		01843	00001	----------	C.3.1.2	--	--	--
	McCall, Kathy Smith		01993	00001	----------	C.3.4.4	--	--	--
	McCandliss, Robert K.		01928	00001	----------	C.3.4.4	--	--	--
	McCaskill, Mallory	Richton Elementary School	01213	00001	----------	C.3.4.4	--	--	--
	McCaudliss, Virginia G.		01930	00001	----------	C.3.4.4	--	--	--
	McCormick, David O.	Jackson County Young Lawyers Ass	01689	00001	----------	C.3.4.4	--	--	--
	McGuire, Jane A.		01818	00001	RN	C.5.7	C.6.1	--	--
	McIlwain, Lana		01010	00001	----------	C.3.4.4	--	--	--
			01010	00002	----------	C.3.1.2	--	--	--
			01010	00003	RN	C.7.1.2	C.7.4.4	--	--
			01010	00005	RN	C.5.3	--	--	--
			01010	00006	RN	C.7.4.4	C.6.5	--	--
	McIlwain, Lana B.	Richton Woman's Club, Inc.	01648	00001	----------	C.3.4.4	--	--	--
			01648	00002	----------	C.3.1.2	--	--	--
			01648	00003	----------	C.3.1.2	--	--	--
			01648	00004	----------	C.3.1.2	--	--	--
			01648	00005	----------	C.3.1.2	--	--	--
	McLarty, Margaret P.		01612	00001	----------	C.3.4.4	--	--	--
			01612	00002	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	McLarty, William		01625	00001	----------	C.3.4.4	--	--	--
			01625	00002	----------	C.2.4.1	--	--	--
	McRae, Debi		01845	00001	----------	C.3.1.2	--	--	--
	Meek, Gary		02049	00001	----------	C.3.4.4	--	--	--
	Meyer, Jr., William H.		01921	00001	----------	C.3.4.4	--	--	--
	Miller, Betty Jo		01809	00001	RN	C.7.4	C.5.11	--	--
	Miller, Glenn		01895	00001	----------	C.3.4.4	--	--	--
	Misko, Marilyn,Jason & Senta		01826	00001	----------	C.3.4.4	--	--	--
	Misko, Jr., Joseph R.		01825	00001	----------	C.3.4.4	--	--	--
	Moore, Cynthia K.		00188	00001	----------	C.3.4.4	--	--	--
	Moore, Mr. & Mrs. George E.		00189	00001	----------	C.3.4.4	--	--	--
	Moore, Cherri J.		00209	00001	----------	C.3.4.4	--	--	--
	Moore, David		00961	00001A	----------	C.3.4.4	--	--	--
			00961	00001B	----------	C.2.3.2	--	--	--
			00961	00002	----------	C.2.3.2	--	--	--
			00961	00003	----------	C.3.4.4	--	--	--
	Moore, Michael C.	DA-Jackson and Greene County	01672	00001	----------	C.3.4.4	--	--	--
	Moran, Dan	Central Point & Supply Inc.	02032	00001	----------	C.3.1.2	--	--	--
	Morgan, Wanda,Debra & Brenda		00122	00001	----------	C.3.4.4	--	--	--
			00122	00002	----------	C.2.8.1	--	--	--
			00122	00003	RN	C.7.2	--	--	--
			00122	00004	RN	C.7.2	--	--	--
			00122	00005	RN	C.4.1.2.3	--	--	--
			00122	00006	----------	C.2.4.1	--	--	--
			00122	00007	----------	C.3.1.2	--	--	--
			00122	00008	RN	C.7.4	--	--	--
			00122	00009A	RN	C.7.4	--	--	--
			00122	00009B	----------	C.3.4.4	--	--	--
			00122	00010	RN	C.7.1.1.3	--	--	--
			00122	00011	RN	C.7.2	--	--	--
	Morgan, Wanda		01002	00001	RN	C.3.1.3	C.7.4.4	--	--
			01002	00002	----------	C.2.1	--	--	--
			01002	00003	----------	C.2.8	--	--	--
			01002	00004	----------	C.3.1.2	--	--	--
	Morgan, Wanda		01643	00001	RN	C.3.1.3	C.7.4.4	--	--
			01643	00002	----------	C.2.1	--	--	--
			01643	00003	----------	C.2.5.2	--	--	--
			01643	00004	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Morris, Barbara		01866	00001	----------	C.3.1.2	--	--	--
	Morris, C. A.		01950	00001	----------	C.3.1.2	--	--	--
	Morris, Sammie R.		01953	00001	RN	C.7.2.7	--	--	--
	Morris, Jr., Daniel L.		01955	00001	----------	C.3.4.4	--	--	--
	Mowery, Heidi A.		01971	00001	----------	C.2.8.1	--	--	--
	Murphy, Diana		01864	00001	----------	C.3.1.2	--	--	--
	Murphy, C. P.		01907	00001	RN	C.7.2.7	--	--	--
	Musgrave, Mrs. Ray S.		00287	00001	RN	C.7.3	--	--	--
	Necaise, Clinton		01819	00001	RN	C.7.2.7	C.5.11	--	--
	Nercaise, Serinie		01969	00001	----------	C.3.4.4	--	--	--
	Netherland, Linda J.		01773	00001	----------	C.3.4.4	--	--	--
	Netherland, Rev. Dan		01775	00001	----------	C.3.4.4	--	--	--
	Netherland, Chad		01776	00001	----------	C.3.4.4	--	--	--
	Netherland, Heidi L.		01779	00001	----------	C.3.4.4	--	--	--
	Newell, Penny	Richton Elementary School	01208	00001	----------	C.3.4.4	--	--	--
	Niblick, B.		01896	00001	----------	C.3.1.2	--	--	--
	Noble, Mary W.		01918	00001	----------	C.3.4.4	--	--	--
	Nuwer, David And Deanne		01983	00001	----------	C.3.1.2	--	--	--
	O'Brien, Mrs. Vivan		02042	00001	----------	C.3.4.4	--	--	--
	O'Keefe, John		00948	00001	----------	C.3.4.4	--	--	--
			00948	00002	RN	C.5.1	--	--	--
			00948	00003	----------	C.3.1.2	--	--	--
			00948	00004	----------	C.3.4.4	--	--	--
	Odle, Jr., Robert C.	Intergovernmental & Public Affa.	01739	00001	----------	C.2.8.2	--	--	--
	Oehler, James A.		01827	00001	----------	C.3.4.4	--	--	--
	Oliver, James		00984	00001	----------	C.2.6.2	--	--	--
			00984	00002	----------	C.3.1.2	--	--	--
			00984	00003	RN	C.4.1.3.3	--	--	--
			00984	00004	----------	C.3.1.2	--	--	--
	Olson, Mrs. A.		01772	00001	----------	C.3.1.2	--	--	--
	Osgood, J. Isaac		01882	00001	----------	C.3.4.4	--	--	--
	Overstreet, Peggy & Kenneth		02021	00001	----------	C.3.4.4	--	--	--
	Pagano, Dottie G.		02012	00001	----------	C.3.4.4	--	--	--
			02012	00002	----------	C.2.8.1	--	--	--
	Parker, Althea		01972	00001	----------	C.3.4.4	--	--	--
	Parkman, Paula W.		01849	00001	----------	C.3.4.4	--	--	--
	Pate, Mrs. William H.	Friends of Gulfport-Harrison	01687	00001	----------	C.3.4.4	--	--	--
	Patterson, Burt L.	Ocean Springs Cham. of Commerce	01695	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Paulk, Angela	Richton Elementary School	01209	00001	----------	C.3.4.4	--	--	--
	Peroyea, Suzanne		02033	00001	----------	C.3.1.2	--	--	--
	Peters, T. N.		01610	00001	----------	C.3.4.4	--	--	--
	Peters, Esther T.		01626	00001	----------	C.3.4.4	--	--	--
	Peterson, Anne	City of Gulfport	01688	00001	----------	C.3.4.4	--	--	--
	Pickett, Jack & Jane		01990	00001	----------	C.3.4.4	--	--	--
			01990	00002	----------	C.2.8.1	--	--	--
	Pittman, Atty Genl, Edwin Lloyd	State of Mississippi	01369	00001	----------	C.2.1.1	--	--	--
			01369	00002	----------	C.2.1.1	--	--	--
			01369	00003	----------	C.2.1.1	--	--	--
			01369	00004	----------	C.2.7	--	--	--
			01369	00005	----------	C.2.1.2	--	--	--
			01369	00006	----------	C.2.1.1	--	--	--
			01369	00007	RN	C.3.2	C.7.4.1	--	--
			01369	00008	----------	C.3.1.1	--	--	--
			01369	00009	----------	C.2.2	--	--	--
			01369	00010	----------	C.4.1	--	--	--
			01369	00011	----------	C.3.3	--	--	--
			01369	00012	RN	C.4.1.3.2	--	--	--
			01369	00013	RN	C.7.1.1.2	C.7.1.1.6	C.4.2.3	C.2.7
			01369	00014	----------	C.2.1.2	--	--	--
			01369	00015	----------	C.3.4.3	--	--	--
			01369	00016	RN	C.6.5	--	--	--
			01369	00017	----------	C.2.1.2	--	--	--
			01369	00018	----------	C.2.7	--	--	--
			01369	00019	RN	C.4.2.2	C.4.3	--	--
			01369	00020	RN	C.4.1.1.5	C.4.3	--	--
			01369	00021	RN	C.4.1.1.5	C.4.1.2.2	C.5.1	--
			01369	00022	RN	C.4.1.1.5	--	--	--
			01369	00023	----------	C.3.4.1	--	--	--
			01369	00024	----------	C.3.4.2.2	--	--	--
			01369	00025	RN	C.4.3	--	--	--
			01369	00026	RN	C.4.3	--	--	--
			01369	00027	RN	C.4.3	--	--	--
			01369	00028	----------	C.5.1	--	--	--
			01369	00040	----------	C.3.4.4	--	--	--
			01369	00041	----------	C.3.4	--	--	--
			01369	00042	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01369	00043	----------	C.2.1.1	--	--	--
			01369	00044	----------	C.2.1.2	--	--	--
			01369	00045	----------	C.2.1.2	--	--	--
			01369	00046	----------	C.2.2	--	--	--
			01369	00047	----------	C.3.4.4	--	--	--
	Pontius, Dr. William		00971	00001	----------	C.3.4.4	--	--	--
	Porter, Michael		01830	00001	----------	C.3.4.4	--	--	--
	Porter, Robert L.		02050	00001	----------	C.2.8.2	--	--	--
	Powell, Syble S.		01791	00001	----------	C.3.4.4	--	--	--
	Powell, Benjamin F.		01792	00001	----------	C.3.4.4	--	--	--
	Powell, Stephen F.		01794	00001	----------	C.3.4.4	--	--	--
	Powers, Sue		00980	00001	----------	C.3.4.4	--	--	--
			00980	00002	----------	C.3.4.4	--	--	--
	Powers, George E.		01848	00001	----------	C.3.4.4	--	--	--
	Prather, Thelma & Virgil		02031	00001	----------	C.3.1.2	--	--	--
	Puckett, Claudette		00985	00001	----------	C.3.4.3	--	--	--
			00985	00002	----------	C.3.1.2	--	--	--
	Purdy, Susan		01034	00001	----------	C.2.1.1	--	--	--
			01034	00002	----------	C.2.7	--	--	--
			01034	00003	RN	C.7.3	--	--	--
			01034	00004	RN	C.6.3	--	--	--
			01034	00005	RN	C.4.1.5	--	--	--
			01034	00006	RN	C.6.1	--	--	--
			01034	00007	RN	C.4.3	--	--	--
			01034	00008	----------	C.3.1.1	--	--	--
			01034	00009	----------	C.3.1.2	--	--	--
	Quigley, Claudette M.		02008	00001	----------	C.3.4.4	--	--	--
	Rahaim, Mayor Ron		00988	00001	----------	C.3.4.4	--	--	--
			00988	00002	----------	C.3.1.2	--	--	--
			00988	00003	RN	C.7.4.4	--	--	--
			00988	00004	RN	C.4.3	C.6.2	--	--
			00988	00005	----------	C.2.1.1	--	--	--
			00988	00006	RN	C.3.1.3	C.6.1	--	--
			00988	00007	----------	C.2.3.3	--	--	--
			00988	00007A	RN	C.7.4	--	--	--
			00988	00007B	----------	C.2.3.1	--	--	--
			00988	00008	----------	C.3.4.4	--	--	--
	Rahaim, Mayor Ron	Town of Richton	01639	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01639	00002	----------	C.3.1.2	--	--	--
			01639	00005	----------	C.2.1.1	--	--	--
			01639	00007A	----------	C.2.3.1	--	--	--
			01639	00007B	----------	C.2.3.1	--	--	--
			01639	00008	----------	C.3.4.4	--	--	--
	Rammell, Ellen		01914	00001	----------	C.3.4.4	--	--	--
	Rammell, James D.		01916	00001	----------	C.3.4.4	--	--	--
	Ramsey, Byron L.		01994	00001	----------	C.3.1.2	--	--	--
	Ramsey, Sibyl S.		02007	00001	----------	C.3.4.4	--	--	--
	Randall, Jack		01877	00001	----------	C.3.1.2	--	--	--
	Rasmussen, Bill		01807	00001	----------	C.3.1.2	--	--	--
	Rhodeman, Mrs. Clare Marino		01821	00001	----------	C.3.4.4	--	--	--
	Riccardi, S.		01666	00001	----------	C.3.1.2	--	--	--
			01666	00002A	----------	C.2.3.2	--	--	--
			01666	00002B	----------	C.3.1.2	--	--	--
	Rich, Kenneth		01008	00001	----------	C.3.4.4	--	--	--
			01008	00002	----------	C.3.4.3	--	--	--
			01008	00003	----------	C.3.4.4	--	--	--
			01008	00004	----------	C.3.4.4	--	--	--
			01008	00005	----------	C.3.1.2	--	--	--
			01008	00006	----------	C.3.4.4	--	--	--
			01008	00007	RN	C.7.2.1	C.7.2.8	C.4.3	--
			01008	00008	----------	C.2.7	--	--	--
			01008	00009	RN	C.7.2.2	--	--	--
			01008	00010	RN	C.4.1.3.2	--	--	--
			01008	00011	----------	C.2.7	--	--	--
			01008	00012	RN	C.7.2	--	--	--
			01008	00013	----------	C.2.7	--	--	--
			01008	00014	----------	C.2.1.1	--	--	--
	Rich, Kenneth Edward		01646	00001	----------	C.3.4.4	--	--	--
			01646	00002	----------	C.3.1.2	--	--	--
			01646	00003	----------	C.3.1.2	--	--	--
			01646	00004	----------	C.3.4.4	--	--	--
			01646	00005	RN	C.4.3	C.7.2.1	--	--
			01646	00006	RN	C.7.2.8	--	--	--
			01646	00007	RN	C.7.2.2	--	--	--
			01646	00008	RN	C.4.1.3.2	--	--	--
			01646	00009	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Richard, Everett C.		02027	00001	----------	C.3.1.2	--	--	--
	Richardson, Margaret		02011	00001	----------	C.3.4.4	--	--	--
	Roberts, Lloyd E.	City of Moss Point	01696	00001	----------	C.3.4.4	--	--	--
			01696	00002	----------	C.3.4.4	--	--	--
	Robertson, Willaim R.		01841	00001	----------	C.3.4.4	--	--	--
	Robinson, Lillian		01860	00001	----------	C.3.4.4	--	--	--
	Roch, Jules C.		01901	00001	----------	C.3.1.2	--	--	--
	Rogers, Bobby		00974	00001	----------	C.3.4.4	--	--	--
	Rogers, Joe		00975	00001	----------	C.3.4.4	--	--	--
			00975	00002	----------	C.3.1.2	--	--	--
			00975	00003	RN	C.4.1.2.2	--	--	--
			00975	00004	----------	C.3.1.2	--	--	--
	Rogers, Dorothy		02022	00001	----------	C.3.4.4	--	--	--
	Rose, Navalou Dunaway		00968	00001	----------	C.3.1.2	--	--	--
	Rosenblatt and Mills, Sen.	MS Legislature	01659	00001	----------	C.2.8.2	--	--	--
	Rubbin, M.		01642	00001	----------	C.3.4.4	--	--	--
	Ruddiman, Mary		01815	00001	----------	C.3.4.4	--	--	--
			01815	00002	----------	C.3.4.4	--	--	--
	Ruffin, Macy		01001	00001	----------	C.3.4.4	--	--	--
	Ruffin, Lou		01018	00001	----------	C.2.1.1	--	--	--
			01018	00002	RN	C.7.4.3	--	--	--
			01018	00003	RN	C.7.4.5	--	--	--
			01018	00004	RN	C.4.1.2.2	--	--	--
			01018	00005	RN	C.4.1.1.5	--	--	--
			01018	00006	RN	C.4.1.1.5	--	--	--
			01018	00007	RN	C.6.2	--	--	--
			01018	00008	----------	C.2.1.5	C.2.7	--	--
	Ruffin, Mary	Richton Elementary School	01215	00001	----------	C.3.4.4	--	--	--
	Sangrouber, Ruby		02004	00001	----------	C.3.4.4	--	--	--
	Satchfield, Charles		01903	00001	----------	C.3.8	--	--	--
	Scarbrough, B. R.		02034	00001	----------	C.3.4.4	--	--	--
	Schmidt/Chance, Richard C./J.Michael		01701	00001	----------	C.3.4.4	--	--	--
	Schroeder, Jewel		01978	00001	----------	C.3.4.4	--	--	--
	Schwartzman, Nina		00952	00001	----------	C.3.4.4	--	--	--
			00952	00002A	RN	C.6.1	--	--	--
			00952	00002B	RN	C.7.2.1	--	--	--
			00952	00002C	RN	C.7.2.2	--	--	--
			00952	00002D	RN	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			00952	00003A	RN	C.5.1	C.6.5	--	--
			00952	00003B	RN	C.5.7	--	--	--
			00952	00003C	RN	C.6.1	--	--	--
			00952	00005	----------	C.2.8.1	--	--	--
	Schwartzman, Nina M.	MS Restaurant Assoc.	01664	00001	----------	C.3.4.4	--	--	--
			01664	00002A	RN	C.6.1	--	--	--
			01664	00002B	RN	C.7.2.1	--	--	--
			01664	00002C	RN	C.7.2.2	--	--	--
			01664	00002D	RN	C.7.4.2	--	--	--
			01664	00002E	RN	C.5.1	C.7.4.2	--	--
			01664	00002F	RN	C.5.7	--	--	--
			01664	00002G	RN	C.6.1	--	--	--
			01664	00003	----------	C.2.8.2	--	--	--
			01664	00004	----------	C.2.8.1	--	--	--
	Sellers, Mary C.		00997	00020	RN	C.5.1	--	--	--
			00997	00021	RN	C.7.4.5	--	--	--
			00997	00022	RN	C.4.1	--	--	--
			00997	00022B	----------	C.2.3	C.4.1	--	--
	Sellers, E. Clyde		01007	00001	----------	C.2.1.1	--	--	--
			01007	00002	----------	C.2.3.2	--	--	--
			01007	00003	RN	C.4.1.5	--	--	--
			01007	00004	RN	C.4.1.4	--	--	--
			01007	00005A	RN	C.4.1	--	--	--
			01007	00005B	RN	C.7.3	--	--	--
			01007	00006	RN	C.4.3	C.3.2	--	--
			01007	00007	RN	C.4.2.3	--	--	--
			01007	00008	RN	C.4.3	--	--	--
			01007	00009	RN	C.7.4.2	--	--	--
			01007	00010	----------	C.2.1.1	--	--	--
			01007	00011	----------	C.2.1.1	--	--	--
			01007	00012	----------	C.3.4.4	--	--	--
	Sellers, E. Clyde		01631	00001	----------	C.2.1.1	--	--	--
			01631	00002	RN	C.4.1.5	--	--	--
			01631	00003	RN	C.4.1.4	--	--	--
			01631	00004	RN	C.4.1	--	--	--
			01631	00005	RN	C.7.3	--	--	--
			01631	00006	RN	C.4.3	C.3.2	--	--
			01631	00007	RN	C.4.2.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01631	00008	RN	C.4.3	--	--	--
			01631	00009	----------	C.2.1.5	--	--	--
			01631	00010	----------	C.2.1.1	--	--	--
			01631	00011	----------	C.2.1.1	--	--	--
	Semski, Lawrence P.		01960	00001	----------	C.3.4.4	--	--	--
	Shankland, Nora		01873	00001	----------	C.3.4.4	--	--	--
	Shanks, Sandra		01875	00001	----------	C.3.4.4	--	--	--
	Shea, Mildred E.		01981	00001	----------	C.3.4.4	--	--	--
	Shea, Thomas W.		01995	00001	----------	C.3.4.4	--	--	--
	Shelton, Leslie		01925	00001	RN	C.4.2.3	--	--	--
	Sherrell, Eunice		02010	00001	----------	C.3.4.4	--	--	--
	Shipp, H. P.		01788	00001	----------	C.2.8.1	--	--	--
	Shrader, Jr., Frank D.		01822	00001	----------	C.3.1.2	--	--	--
	Simmons, Robert E.		01781	00001	----------	C.3.4.4	--	--	--
	Sims, Tom	Attorney and Counselor at Law	01734	00001	----------	C.2.8.2	--	--	--
	Smith, Felicia		01096	00001	----------	C.3.4.4	--	--	--
			01096	00002A	----------	C.2.4.1	--	--	--
			01096	00002B	RN	C.6.1	--	--	--
	Smith, Suzanne		01611	00001	----------	C.3.4.3	--	--	--
	Smith, Estelle		01938	00001	----------	C.3.4.4	--	--	--
	Smith, James		01954	00001	----------	C.3.4.4	--	--	--
	Snider, Ken		01803	00001	----------	C.2.8.2	--	--	--
	Snider, Margaret S.		01804	00001	----------	C.2.8.1	--	--	--
	Snyder, Chris		00940	00001	----------	C.3.4.4	--	--	--
			00940	00002	----------	C.3.1.2	--	--	--
			00940	00003	----------	C.3.4.4	--	--	--
	Snyder, Susan		00955	00001	----------	C.3.4.4	--	--	--
	Sohnier, Carrol J.		02039	00001	----------	C.3.4.4	--	--	--
	Sonnier, Lelia		02038	00001	----------	C.3.4.4	--	--	--
	Spence, Laura		01758	00001	----------	C.3.4.4	--	--	--
	Spencer, Johnnie W.		00167	00001	----------	C.2.1.1	--	--	--
			00167	00002	----------	C.2.8.1	--	--	--
			00167	00003	----------	C.3.1.2	--	--	--
			00167	00004	----------	C.3.1.2	--	--	--
			00167	00005	----------	C.3.1.2	--	--	--
	Spinks, Phillip		02005	00001	----------	C.3.4.4	--	--	--
	Spinks, Patricia A.		02006	00001	----------	C.3.4.4	--	--	--
	Spooner, Larry		02030	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Stallworth, Bill		00936	00001	RN	C.4.1.2	C.4.1.3.3	--	--
			00936	00002	----------	C.3.4.4	--	--	--
	Stanley, Mrs. Nora		01763	00001	----------	C.3.4.4	--	--	--
			01763	00002	----------	C.2.8.2	--	--	--
	Stanley, Robert		01888	00001	RN	C.7.4	--	--	--
	Steele, Janie		01924	00001	----------	C.7.4.1	--	--	--
	Stet, Chrissy		01768	00001	----------	C.3.4.4	--	--	--
	Stevens, Henry		01009	00001	RN	C.4.3	--	--	--
			01009	00002	----------	C.2.2.1	--	--	--
			01009	00003	----------	C.2.7	--	--	--
			01009	00004	RN	C.4.3	--	--	--
			01009	00005	----------	C.2.6	--	--	--
			01009	00006	RN	C.7.4	--	--	--
	Stevens, Henry	B. M. Stevens Company	01647	00001	RN	C.4.3	--	--	--
			01647	00002	----------	C.3.1.1	--	--	--
			01647	00003	----------	C.3.1.2	--	--	--
			01647	00004	RN	C.4.3	--	--	--
			01647	00005	----------	C.2.6	--	--	--
			01647	00006	RN	C.7.4.1	--	--	--
	Stokes, Mary and Jack		01909	00001	----------	C.3.4.4	--	--	--
	Stokes, Mark		01911	00001	----------	C.3.4.4	--	--	--
	Stokes, Tina		01913	00001	----------	C.3.4.4	--	--	--
	Strader, Maria F.		01991	00001	----------	C.3.1.2	--	--	--
	Strickland, Becky		00994	00001	----------	C.3.4.4	--	--	--
			00994	00002	RN	C.7.4	--	--	--
			00994	00003	RN	C.7.2	C.5.10	--	--
			00994	00004	----------	C.3.4.4	--	--	--
	Strickland, Warren		01006	00001	----------	C.2.1.1	--	--	--
			01006	00002	RN	C.4.1.1.5	--	--	--
			01006	00003	----------	C.3.3.2	--	--	--
	Strickland, Adrian		01011	00001	----------	C.3.1.2	--	--	--
	Strickland, Barry		01012	00001	----------	C.3.4.4	--	--	--
	Strickland, Becky	Richland Home and Garden Club	01638	00001	----------	C.3.4.4	--	--	--
			01638	00002	RN	C.7.4	--	--	--
			01638	00003	RN	C.7.2	C.5.10	--	--
			01638	00004	RN	C.4.3	--	--	--
			01638	00006	RN	C.3.1.3	--	--	--
	Strickland, Adrian	Richton Elementary School	01217	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Strickland, Barry	Richton High School	01632	00001	----------	C.3.4.4	--	--	--
	Strickland, Adrian		01633	00001	----------	C.1	--	--	--
			01634	00001	----------	C.2.1.1	--	--	--
			01634	00002	RN	C.4.1.1.5	--	--	--
			01634	00003	----------	C.3.1.2	--	--	--
	Strong, Lon	Commission on Wildlife Conserv.	01682	00001	----------	C.3.4.4	--	--	--
	Stuart, Jimmie D		01958	00001	----------	C.3.4.4	--	--	--
	Stuart, Dorothy		01967	00001	----------	C.3.4.4	--	--	--
	Sundeen, Dr. Dan	University of So. Mississippi	01717	00001	----------	C.2.8.2	--	--	--
	Suryadevara, Dr. R. B.		00954	00001	RN	C.6.5	--	--	--
	Sutton, Amy		00967	00001	----------	C.3.4.4	--	--	--
	Tait, Mr. & Mrs. William		01889	00001	----------	C.3.4.4	--	--	--
	Talbot, Jill		01766	00001	----------	C.3.4.4	--	--	--
	Tanner, Mr. & Mrs. Lettman		01933	00001	----------	C.3.1.2	--	--	--
	Taylor, Senator Gene		00958	00001	----------	C.3.4.4	--	--	--
	Taylor, Ellis		00965	00001	----------	C.3.4.4	--	--	--
			00965	00002	----------	C.3.4.4	--	--	--
	Taylor, Ellis	Fifth Congressional District	01685	00001	----------	C.3.4.4	--	--	--
			01685	00002	----------	C.3.4.4	--	--	--
	Teck, William		00943	00001	----------	C.3.1.2	--	--	--
			00943	00002	----------	C.3.1.2	--	--	--
			00943	00003	----------	C.3.4.4	--	--	--
	Thibault, Kelly		01966	00001	----------	C.3.4.4	--	--	--
	Thompson, Russell		00976	00001	----------	C.3.4.4	--	--	--
			00976	00002	----------	C.3.4.4	--	--	--
			00976	00003	----------	C.3.1.2	--	--	--
	Thompson, Russell D.	Ocean Springs Cham. of Commerce	01694	00001	----------	C.3.4.4	--	--	--
	Tillingshast, Nellie		00951	00001	----------	C.3.4.4	--	--	--
			00951	00002	----------	C.2.3.3	--	--	--
			00951	00003	----------	C.3.1.2	--	--	--
			00951	00004	RN	C.4.1	--	--	--
			00951	00005	RN	C.4.1.1	--	--	--
	Titler, Helen		01793	00001	----------	C.3.4.4	--	--	--
	Todaro, Antonia C.		02044	00001	----------	C.3.4.4	--	--	--
	Todaro, Sr., Guy S.		02045	00001	----------	C.3.4.4	--	--	--
	Tracy, Mrs. John		01629	00001	----------	C.3.4.4	--	--	--
	Tracy, Shawn		01630	00001	----------	C.3.4.4	--	--	--
	Trahan, Jennifer		00966	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	Umbdenstock, Mrs. P. J.		02014	00001	----------	C.3.4.4	--	--	--
	Umbdenstock, Jr., P. J.		02013	00001	----------	C.3.4.4	--	--	--
	Valerine, Mrs. V. H.		01996	00001	----------	C.3.1.2	--	--	--
	Vasselus, Kathryn S.		01151	00001	RN	C.7.3	--	--	--
			01151	00002	RN	C.5.7	--	--	--
			01151	00003	RN	C.5.1	C.5.11	--	--
	Vickers, Mary A.		01756	00001	----------	C.3.4.4	--	--	--
	Vorhes, Donna C.		01853	00001	----------	C.2.8.1	--	--	--
			01853	00002	----------	C.2.8.2	--	--	--
	Vorhes, Paul & Donna		01854	00001	----------	C.3.4.4	--	--	--
	Wadley, William T.		02043	00001	----------	C.3.4.4	--	--	--
			02043	00218	DC	C.5.11	--	--	--
	Wahlers, Salissa Ruth		01759	00001	----------	C.3.1.2	--	--	--
	Wahlers, Kemmez		01980	00001	----------	C.3.4.4	--	--	--
	Walley, Oren		01013	00001	RN	C.7.4.2	--	--	--
	Walley, Pettis		01743	00001	----------	C.2.8.2	--	--	--
	Walley, Oren	Richton Rotary Club	01649	00001A	----------	C.2.3.2	--	--	--
			01649	00001B	----------	C.2.3.2	--	--	--
	Walters, Fred		00944	00001	----------	C.2.1.1	--	--	--
			00944	00002	----------	C.3.1.2	--	--	--
			00944	00003	----------	C.3.1.2	--	--	--
			00944	00004	----------	C.3.1.2	--	--	--
	Walters, Joe		00950	00001	----------	C.3.4.4	--	--	--
			00950	00002	----------	C.2.3.1	--	--	--
			00950	00003	----------	C.3.4.4	--	--	--
	Walton, Ronnie L.	Pat Harrison Waterway District	01700	00001	----------	C.3.4.4	--	--	--
	Ware, Fred		01935	00001	----------	C.3.4.4	--	--	--
	Watson, Leon R.		01867	00001	----------	C.3.4.4	--	--	--
	Watson, Clara A.		01870	00001	----------	C.3.4.4	--	--	--
	Watson, Ruth A.		01934	00001	----------	C.3.1.2	--	--	--
	Watson, Angela		01985	00001	----------	C.3.4.4	--	--	--
	Weatherly, Mrs. Patricia C.		02056	00001	----------	C.3.4.4	--	--	--
	Welch, Mr. Mark		01881	00001	----------	C.3.4.4	--	--	--
	Wells, Mauelle H.		01957	00001	----------	C.3.1.2	--	--	--
	Wentzell, Boby R.		01923	00001	RN	C.5.1	C.5.3	C.7.2.8	--
			01923	00001A	----------	C.7.4.1	--	--	--
			01923	00001B	----------	C.3.4.4	--	--	--
	White, John D.		01015	00001	----------	C.2.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
			01015	00002	----------	C.2.1	C.6.2	C.2.3.1	--
			01015	00003	RN	C.7.4	--	--	--
			01015	00003A	RN	C.4.1.5	--	--	--
			01015	00003B	RN	C.7.4	--	--	--
			01015	00003C	RN	C.7.4.2	--	--	--
			01015	00003D	RN	C.4.1.5	--	--	--
			01015	00004	----------	C.3.4.4	--	--	--
	White, John B.		01651	00001	----------	C.2.1	--	--	--
			01651	00002	----------	C.2.1	--	--	--
			01651	00003	----------	C.2.1.1	--	--	--
	Wilburn, William		02057	00001	----------	C.3.4.4	--	--	--
	Wilkerson, Bill		01719	00001	----------	C.2.8.2	--	--	--
	Wilkerson, Bill	Mississippi House of Reps	01725	00001	----------	C.2.8.2	--	--	--
	Wilkerson, Bill	State of Mississippi	01731	00001	----------	C.2.8.2	--	--	--
	Wilkinson, Charles		01025	00001	----------	C.2.4.1	--	--	--
			01025	00002	----------	C.2.1.1	--	--	--
	Wilkinson, Charles	Emerg Management/City of Jackson	01602	00001	RN	C.7.3	--	--	--
			01602	00002	----------	C.2.1.1	--	--	--
	Williams, Peggy		01813	00001	----------	C.3.4.4	--	--	--
	Williams, Marlane H.		01836	00001	----------	C.3.4.4	--	--	--
	Williams, Wanda		01850	00001	----------	C.3.4.4	--	--	--
	Williams, Jesse		01851	00001	----------	C.3.4.4	--	--	--
	Williams, John C.		01989	00001A	----------	C.2.5.2	--	--	--
			01989	00001B	----------	C.3.4.4	--	--	--
			01989	00002	----------	C.2.8.2	--	--	--
	Williams, Nellie		02040	00001	----------	C.3.4.4	--	--	--
	Williamson, Victor H.		01952	00001	----------	C.3.4.4	--	--	--
	Wilson, L. A.		01021	00002	----------	C.3.1.2	--	--	--
			01021	00003	----------	C.3.4.4	--	--	--
			01021	00004	----------	C.2.1.5	--	--	--
			01021	00005	----------	C.2.1.1	--	--	--
			01021	00006	----------	C.2.8.2	--	--	--
	Wilson, Gail		01912	00001	----------	C.3.4.4	--	--	--
	Wilson, Denise J.		01945	00001	----------	C.3.4.4	--	--	--
	Wilson, L. A.	The Richton Dispatch	01652	00001	----------	C.3.1.2	--	--	--
			01652	00002	----------	C.2.1.1	--	--	--
	Wise, Catherine	Richton Elementary School	01211	00001	----------	C.3.1.2	--	--	--
	Wynne, Mrs. G. M.		01897	00001	RN	C.5.3	C.5.7	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Mississippi (continued)									
	York, David & Sue		01910	00001	----------	C.3.4.4	--	--	--
	Zimmerman, Mavin D.		02053	00001	----------	C.3.4.4	--	--	--
	Zimmerman, Virginia		02054	00001	----------	C.3.4.4	--	--	--
Missouri									
	Cosbey, Elizabeth S		01061	00001	DC	C.7.2.4	--	--	--
	Haubein, George P.		00473	00001	DC	C.7.1.1	--	--	--
			00473	00002	DC	C.7.4	--	--	--
	Keebler, James H.		00300	00001	----------	C.2.1.1	--	--	--
			00300	00002	----------	C.2.1.1	--	--	--
			00300	00004	DS	C.7.2	--	--	--
			00300	00006	----------	C.2.7	--	--	--
	Kyle, Marjorie		00522	00001	DC	C.7.2	--	--	--
			00522	00002	DC	C.7.2	--	--	--
			00522	00003	DC	C.7.2	--	--	--
	Moore, James Douglas		00030	00001	----------	C.3.4.4	--	--	--
	Orr, Richard A.		00642	00001	----------	C.3.4.4	--	--	--
			00642	00002	----------	C.2.3.3	--	--	--
			00642	00003	DC	C.3.1.3	--	--	--
			00642	00004	DC	C.7.2	C.7.1.1	--	--
			00642	00005	DC	C.7.2	--	--	--
			00642	00006	DC	C.7.2.3	--	--	--
			00642	00007	DC	C.7.3	C.7.2.4	--	--
			00642	00008	DC	C.7.2.5	--	--	--
			00642	00009	DC	C.7.2.6	--	--	--
Montana									
	Anonymous	Coalition for Canyon Preserv.	00070	00001	----------	C.3.4.4	--	--	--
	DeBolt, Ann		00270	00001	DC	C.7.2	--	--	--
			00270	00002	DC	C.7.2	--	--	--
			00270	00003	DC	C.7.4	--	--	--
			00270	00004	DC	C.7.4	--	--	--
			00270	00005	DC	C.4.1.3.3	--	--	--
			00270	00006	DC	C.7.3	--	--	--
			00270	00007	DC	C.7.1.1.9	--	--	--
			00270	00008	DC	C.4.1.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Montana (continued)									
	Hetrick, Amy L.		00612	00001	----------	C.3.1.2	--	--	--
			00612	00002	DC	C.7.4	--	--	--
			00612	00003	----------	C.3.1.2	--	--	--
	Kay, Mrs. Edw.		00157	00001	DC	C.7.3	--	--	--
	Kay, Charles		00165	00001	----------	C.3.4.4	--	--	--
			00165	00002	DC	C.7.2	--	--	--
			00165	00003	----------	C.3.4.4	--	--	--
	Miller-Richardson, Gail		00216	00001	----------	C.3.4.4	--	--	--
			00216	00002	DC	C.7.2.5	--	--	--
			00216	00003	DC	C.7.2	--	--	--
			00216	00004	DC	C.7.2	--	--	--
			00216	00005	----------	C.3.4.4	--	--	--
	Schunk, George		02250	00001	----------	C.3.4.4	--	--	--
	Shaw, Dr. William S.		00308	00001	DC	C.7.2	--	--	--
			00308	00002	DC	C.7.4	--	--	--
			00308	00003	----------	C.3.1.2	--	--	--
	Taylor, Kelli J.		00520	00001	----------	C.3.4.4	--	--	--
Nebraska									
	Hahn, Kandra	State of Nebraska/Energy Office	02695	00001	----------	C.2.4.1	--	--	--
			02695	00002	----------	C.2.4.1	--	--	--
			02695	00003	----------	C.2.4.1	--	--	--
			02695	00004	----------	C.2.4.1	--	--	--
			02695	00005	----------	C.2.4.1	--	--	--
			02695	00006	----------	C.2.4.1	--	--	--
			02695	00007	----------	C.2.4.1	--	--	--
			02695	00008	----------	C.2.4.1	--	--	--
			02695	00009	----------	C.2.4.1	--	--	--
			02695	00010	----------	C.2.4.1	--	--	--
			02695	00011	----------	C.2.4.1	--	--	--
			02695	00012	----------	C.2.4.1	--	--	--
			02695	00013	----------	C.2.4.1	--	--	--
			02695	00014	----------	C.2.4.1	--	--	--
			02695	00015	----------	C.2.4.1	--	--	--
			02695	00016	----------	C.2.4.1	--	--	--
	Kerrey, Governor Robert	State of Nebraska	01512	00001	----------	C.7.3	--	--	--
			01512	00002	----------	C.7.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nebraska (continued)									
			01512	00003	----------	C.2.1	--	--	--
			01512	00004	----------	C.7.3	--	--	--
			01512	00005	----------	C.2.4.1	--	--	--
			01512	00006	----------	C.2.4.1	--	--	--
			01512	00007	----------	C.2.6.1	--	--	--
			01512	00008	----------	C.2.4.1	--	--	--
			01512	00009	----------	C.7.3	--	--	--
			01512	00010	----------	C.2.4.1	--	--	--
			01512	00011	----------	C.7.3	--	--	--
New Jersey									
	Kale, Shirley W.		00540	00001	DC	C.3.1.3	--	--	--
			00540	00002	DC	C.3.1.3	--	--	--
	Loeser, Carl & Mrs.		00629	00001	DC	C.3.1.3	--	--	--
New Mexico									
	Brown, Philip		02702	00001	----------	C.3.4.4	--	--	--
			02702	00002	----------	C.3.1.2	--	--	--
			02702	00003	----------	C.3.4.4	--	--	--
			02702	00004	----------	C.2.1.1	--	--	--
	Covington, Margo		00160	00001	----------	C.3.1.2	--	--	--
			00160	00002	DC	C.7.2	--	--	--
	Fickett, Jim and Mary		00076	00001	DS	C.7.4	--	--	--
	Goette, Judy C.		00343	00001	----------	C.7.2.5	--	--	--
			00343	00002	----------	C.7.2.4	--	--	--
			00343	00003	----------	C.7.2.4	--	--	--
	Jones, Dan	Rio Grande Chapter Sierra Club	00440	00001	DC	C.7.2	--	--	--
			00440	00002	DC	C.7.2	--	--	--
			00440	00003	----------	C.3.1.2	--	--	--
	Kosel, Mark E.		00194	00001	----------	C.3.4.4	--	--	--
	Mabery, Ken and Marilyne V.		00404	00001	----------	C.3.4.4	--	--	--
	Olivo, R.N., B.S.N., Noemi	The College of Santa Fe	02074	00001	----------	C.3.1.2	--	--	--
	Ranno, Dr. Russel A.		00164	00001	----------	C.3.4.4	--	--	--
			00164	00002	DC	C.3.2	--	--	--
	Stanco, Alan D.		00421	00001	DC	C.3.1.3	--	--	--
	Teague, Jonathan M.		00330	00001	DC	C.7.1.1.8	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
New Mexico (continued)									
			00330	00002	DC	C.7.2	--	--	--
			00330	00003	DC	C.7.2	--	--	--
			00330	00004	DC	C.7.4	--	--	--
			00330	00005	DC	C.7.2	--	--	--
			00330	00006	DC	C.3.2	--	--	--
			00330	00007	DC	C.4.1.2.2	--	--	--
			00330	00008	DC	C.4.1.2.2	--	--	--
	de Narvaez, Cynta		01160	00001	DC	C.7.1.2	--	--	--
Nevada									
		City of Caliente,Lincoln County	02644	00001	----------	C.7.4.2	--	--	--
			02644	00003	----------	C.2.2.1	--	--	--
			02644	00012	----------	C.2.1.1	--	--	--
			02644	00013	----------	C.2.1.1	--	--	--
			02644	00025	----------	C.2.4.1	C.7.3	--	--
			02644	00035	----------	C.2.4.1	--	--	--
			02644	00036	----------	C.2.4.1	--	--	--
			02644	00042	----------	C.2.4.1	--	--	--
			02644	00043	----------	C.2.4.1	--	--	--
			02644	00044	----------	C.2.4.1	--	--	--
			02644	00045	----------	C.2.4.1	--	--	--
			02644	00046	----------	C.2.4.1	--	--	--
			02644	00051	----------	C.2.4.1	--	--	--
			02644	00068	----------	C.3.1.1	C.3.7	--	--
			02644	00079	----------	C.2.4.1	C.7.3	--	--
			02644	00081	----------	C.2.1.1	--	--	--
			02644	00082	----------	C.2.1.1	--	--	--
			02644	00083	----------	C.3.1.2	--	--	--
			02644	00084	----------	C.3.4.3	--	--	--
			02644	00085	----------	C.3.4.3	--	--	--
	Adams, Mrs.		00424	00002	----------	C.7.4.2	--	--	--
			00424	00004	----------	C.3.4.4	--	--	--
			00424	00005	----------	C.3.4.4	--	--	--
	Anonymous	Las Vegas City Council	01431	00001	----------	C.3.4.4	--	--	--
		NV Commission on Tourism	01426	00001	----------	C.3.1.2	--	--	--
			01426	00002	----------	C.3.1.2	--	--	--
		Reno City Government	01427	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			01427	00002	----------	C.2.4.1	--	--	--
	Armstrong, Gail	Lincoln County	01411	00001	----------	C.2.4.1	--	--	--
			01411	00006	----------	C.2.4.1	C.7.3	--	--
	Ballow, Thomas W.	St of NV, Dept of Agriculture	02651	00001	----------	C.2.4.2	--	--	--
	Barbano, Andrew		01453	00001	----------	C.2.1.1	--	--	--
			01453	00002	----------	C.3.1.1	--	--	--
			01453	00003	----------	C.2.8	--	--	--
	Bass, John	Beatty Town Advisory Comittee	01416	00001	----------	C.3.1.2	--	--	--
			01416	00002	----------	C.2.1.2	--	--	--
			01416	00003	----------	C.2.1.2	--	--	--
			01416	00004	----------	C.2.1.2	--	--	--
			01416	00005	----------	C.3.4.4	C.7.4	--	--
			01416	00006	----------	C.2.1.5	--	--	--
			01416	00007	----------	C.3.1.2	--	--	--
	Bass, John R.	Beatty Town Advisory Council	00136	00001	----------	C.2.1.2	--	--	--
	Bass, John		01402	00001	----------	C.3.1.2	--	--	--
			01402	00002	----------	C.2.1.2	--	--	--
			01402	00007	----------	C.3.1.2	--	--	--
	Baughman, Mike		01449	00001	----------	C.2.4.1	C.7.3	--	--
			01449	00007	----------	C.2.1.1	--	--	--
			01449	00008	----------	C.2.1.2	--	--	--
	Bechtel, Dennis	Clark County Commission	01422	00002	----------	C.3.4.4	--	--	--
			01422	00004	----------	C.2.4.1	--	--	--
			01422	00006	----------	C.3.4.3	--	--	--
			01422	00008	----------	C.2.4.1	--	--	--
			01422	00011	----------	C.2.1.2	--	--	--
	Benedickt, Patrick		01486	00002	----------	C.2.3	--	--	--
			01486	00005	----------	C.2.4.1	--	--	--
	Bernard, Jackie		01461	00001	----------	C.2.4.1	C.7.3	--	--
	Bernard, M.		01462	00001	----------	C.2.6.3	--	--	--
	Bernheimer, Mrs.		01454	00001	----------	C.2.4.1	--	--	--
	Bird, Marian J.		00266	00010	----------	C.2.4.3	--	--	--
			00266	00011	----------	C.2.8.2	--	--	--
	Bradbury, Audry		01420	00006	----------	C.2.1.2	--	--	--
	Bradhurst, Stephen T.	Nye County Planning Consultant	01558	00001	----------	C.2.4.1	--	--	--
			01558	00002	----------	C.3.1.2	--	--	--
			01558	00003	----------	C.2.4.1	--	--	--
			01558	00009	----------	C.2.4.1	C.7.3	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			01558	00011	----------	C.3.1.2	--	--	--
			01558	00015	----------	C.3.1.3	--	--	--
			01558	00016	----------	C.3.1.2	--	--	--
			01558	00017	----------	C.3.4.3	--	--	--
			01558	00018	----------	C.3.4.3	--	--	--
			01558	00028	----------	C.2.4.1	C.4.1.4	--	--
			01558	00030	----------	C.2.4.1	C.4.1.4	--	--
			01558	00080	----------	C.2.4.1	C.7.3	--	--
			01558	00082	----------	C.2.4.1	C.7.3	--	--
			01558	00098	----------	C.2.4.1	C.7.3	--	--
			01558	00100	----------	C.2.4.1	--	--	--
	Bryan, Governor Richard H.	State of Nevada	02671	00001	----------	C.3.1.1	--	--	--
			02671	00002	----------	C.2.3.1	--	--	--
			02671	00003	----------	C.3.4.4	--	--	--
			02671	00004	----------	C.3.1.2	--	--	--
			02671	00005	----------	C.3.1.2	--	--	--
			02671	00006	----------	C.3.1.2	--	--	--
	Bukowski, Grace		00511	00003	----------	C.3.1.1	--	--	--
			00511	00005	----------	C.2.8.2	--	--	--
			00511	00008	----------	C.3.1.2	--	--	--
	Bukowski, Grace		01482	00002	----------	C.2.8.3	--	--	--
			01482	00003	----------	C.2.5.2	--	--	--
			01482	00005	----------	C.2.4.2	--	--	--
			01482	00008	----------	C.3.1.2	--	--	--
			01482	00010	----------	C.3.1.2	--	--	--
	Byrd, Mark	Sierra Club	01441	00002	----------	C.2.8.2	--	--	--
	Byrne, Bernard		01438	00001	----------	C.2.4.1	C.7.3	--	--
	Carrico, Helen R. & Renee		00031	00001	----------	C.3.4.4	--	--	--
	Christensen, Douglass		01434	00001	----------	C.3.4.4	--	--	--
	Curry, Harold		00513	00001	----------	C.3.4.4	--	--	--
	Dangerfield, G.		01470	00001	----------	C.2.8.1	--	--	--
	Dehne, Donald L.	Dept of Commerce, Div Emer Mgmt.	02654	00021	----------	C.2.4.1	--	--	--
	Dickinson, Bob		01414	00001	----------	C.2.1.1	--	--	--
			01414	00002	----------	C.2.4.1	--	--	--
			01414	00003	----------	C.2.4.1	--	--	--
			01414	00004	----------	C.2.3.2	--	--	--
			01414	00005	----------	C.2.1.2	--	--	--
	Dickinson, Bob		01452	00003	----------	C.2.8.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
	Dobra, John L.	Bureau Business & Economic Resea	02653	00025	----------	C.2.1.2	--	--	--
			02653	00044	----------	C.2.1.3	--	--	--
	Doherty, Frank		00004	00001	----------	C.3.1.2	--	--	--
			00004	00002	----------	C.3.4.4	--	--	--
			00004	00003	----------	C.3.1.2	--	--	--
			00004	00004	----------	C.3.1.2	--	--	--
			00004	00005	----------	C.7.3	--	--	--
	Dondero, Thalia	Board of Co. Commissioners	01230	00001	----------	C.2.1.1	--	--	--
			01230	00002	----------	C.3.1.2	--	--	--
			01230	00003	----------	C.3.1.2	--	--	--
			01230	00004	----------	C.3.1.2	--	--	--
			01230	00005	----------	C.3.3	--	--	--
			01230	00006	----------	C.3.3	--	--	--
			01230	00007	----------	C.4.3	--	--	--
			01230	00008	----------	C.3.4.3	--	--	--
			01230	00009	----------	C.3.1.1	--	--	--
			01230	00010	----------	C.2.4.1	--	--	--
			01230	00011	----------	C.2.4.1	--	--	--
			01230	00013	----------	C.3.4.3	--	--	--
			01230	00014	----------	C.2.4.1	C.7.3	--	--
			01230	00015	----------	C.2.8.1	--	--	--
			01230	00016	----------	C.2.4.1	--	--	--
			01230	00021	----------	C.3.4.3	--	--	--
	Early, Ann		01097	00001	----------	C.3.4.4	--	--	--
			01097	00006	----------	C.2.8.1	C.4.1.5.1	--	--
			01097	00008	----------	C.2.4.1	C.7.3	--	--
	Fedinic, C		01466	00001	----------	C.3.4.4	--	--	--
	Ferraro, Mayor,	Boulder City City Council	01428	00001	----------	C.3.4.4	--	--	--
	Fulkerson, Mr. B.		01457	00001	----------	C.2.4.1	--	--	--
			01457	00007	----------	C.2.4.1	--	--	--
			01457	00009	----------	C.2.4.1	--	--	--
			01457	00015	----------	C.3.1.2	--	--	--
			01457	00016	----------	C.3.4.3	--	--	--
			01457	00017	----------	C.2.8.1	--	--	--
			01457	00018	----------	C.2.1.1	--	--	--
			01457	00019	----------	C.2.1.1	--	--	--
	Fulkerson, Bob	Citizen Alert	01262	00006	----------	C.2.4.1	C.7.3	--	--
			01262	00008	----------	C.2.4.1	C.7.3	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			01262	00009	----------	C.2.4.1	C.7.3	--	--
			01262	00010	----------	C.2.4.1	--	--	--
			01262	00016	----------	C.3.1.2	--	--	--
			01262	00017	----------	C.2.1.1	--	--	--
	Gary, Keneth		01405	00001	----------	C.3.4.4	--	--	--
	Gary, Jean		01406	00001	----------	C.3.4.4	--	--	--
	Gates, David A.	Dept. of Commerce	02658	00001	----------	C.2.4.1	--	--	--
	Gregory, T		01459	00001	----------	C.2.8.1	--	--	--
			01459	00002	----------	C.3.1.2	--	--	--
			01459	00003	----------	C.3.1.2	--	--	--
	Hale, Ms. C.		01455	00001	----------	C.2.1.1	--	--	--
			01455	00002	----------	C.2.7	--	--	--
			01455	00003	----------	C.3.1.2	--	--	--
			01455	00004	----------	C.2.8.3	--	--	--
	Hall, Robert		01412	00001	----------	C.3.4.4	--	--	--
	Hammes, Babe		01409	00001	----------	C.2.8.3	--	--	--
	Hardy, James K.	Torok Expl.,Min.,& Constr. Co.	01110	00001	----------	C.3.4.4	--	--	--
			01110	00002	----------	C.2.1.2	--	--	--
			01110	00003	----------	C.3.1.2	--	--	--
	Harlan, Shirley		01432	00001	----------	C.2.4.3	--	--	--
	Harlan, Sirley J.	Cold Comfort Farm	01168	00001	----------	C.2.4.3	--	--	--
			01168	00003	----------	C.2.8.3	--	--	--
			01168	00004	----------	C.2.3.2	--	--	--
	Hill, Ronald W.	Dept. of Transportation	02655	00001	----------	C.3.1.1	--	--	--
			02655	00002	----------	C.2.4.1	--	--	--
			02655	00003	----------	C.2.4.1	--	--	--
			02655	00004	----------	C.2.4.1	--	--	--
			02655	00005	----------	C.2.4.1	--	--	--
			02655	00006	----------	C.2.4.1	--	--	--
			02655	00007	----------	C.2.4.1	--	--	--
			02655	00012	----------	C.2.4.1.18	--	--	--
			02655	00020	----------	C.2.4.1	--	--	--
	Hock, Betty	NV Gen Fed Women's Clubs	00517	00001	----------	C.3.1.2	--	--	--
	Hock, Betty E.	NV. Gen Fed. of Women's Clubs	00139	00001	----------	C.3.4.2.4	--	--	--
			00139	00002	----------	C.3.4.2.4	--	--	--
	Hoke, M		01471	00002	----------	C.2.3.1	--	--	--
			01471	00003	----------	C.3.4.4	--	--	--
	Holmes, Richard B.	Dept. of Comprehensive Planning	01263	00001	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			01263	00002A	----------	C.3.3	--	--	--
			01263	00002B	----------	C.3.4.3	--	--	--
			01263	00003	----------	C.3.4.3	C.3.1.1	--	--
			01263	00004	----------	C.3.4.3	--	--	--
			01263	00005	----------	C.2.4.1	--	--	--
			01263	00006	----------	C.2.4.1	--	--	--
			01263	00007	----------	C.2.4.1	--	--	--
			01263	00008	----------	C.2.4.1	--	--	--
			01263	00009	----------	C.3.4.3	--	--	--
			01263	00010	----------	C.2.4.1	--	--	--
			01263	00011	----------	C.2.5.1	--	--	--
			01263	00012	----------	C.2.4.1	--	--	--
			01263	00016	----------	C.3.4.3	--	--	--
			01263	00017	----------	C.3.1.2	--	--	--
			01263	00018	----------	C.3.1.2	--	--	--
			01263	00019	----------	C.3.1.2	--	--	--
			01263	00020	----------	C.3.1.2	--	--	--
			01263	00021	----------	C.3.1.2	--	--	--
			01263	00023	----------	C.2.7	--	--	--
			01263	00024	----------	C.2.4.3	--	--	--
			01263	00041	----------	C.3.4.4	--	--	--
			01263	00045	----------	C.2.7	--	--	--
			01263	00047	----------	C.2.4.1	--	--	--
			01263	00096	----------	C.2.4.1	C.7.2.7	--	--
			01263	00099	----------	C.2.4.1	C.7.3	--	--
			01263	00105	----------	C.2.4.1	C.7.3	--	--
			01263	00106	----------	C.2.4.1	C.7.3	--	--
			01263	00107	----------	C.7.3	C.2.4.1	--	--
			01263	00122	----------	C.2.4.1	C.7.3	--	--
			01263	00123	----------	C.2.4.1	C.7.3	--	--
			01263	00126	----------	C.3.1.1	--	--	--
			01263	00131	----------	C.2.4.1	C.6.1	--	--
			01263	00138	----------	C.2.4.1	C.7.3	--	--
			01263	00139	----------	C.2.4.1	C.7.3	--	--
			01263	00140	----------	C.2.4.1	C.7.5	--	--
			01263	00145	----------	C.4.3	--	--	--
			01263	00146	----------	C.3.4.2.2	--	--	--
			01263	00147	----------	C.3.4.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			01263	00148	----------	C.3.4.2.2	--	--	--
			01263	00149	----------	C.2.4.1	--	--	--
	Holtz, Charles		01400	00001	----------	C.2.1.1	--	--	--
			01400	00002	----------	C.3.1.2	C.2.8	C.2.7	--
			01400	00006	----------	C.3.4.3	C.7.4	C.3.4.2.1	--
			01400	00007	----------	C.2.7	C.7.2.7	--	--
			01400	00009	----------	C.3.4.4	--	--	--
			01400	00010	----------	C.2.4.1	--	--	--
			01400	00011	----------	C.2.4.1	--	--	--
			01400	00012	----------	C.2.1.5	--	--	--
			01400	00013	----------	C.2.4.1	--	--	--
			01400	00015	----------	C.2.3.2	--	--	--
	Janisek, Stan		01444	00002	----------	C.2.4.1	--	--	--
			01444	00003	----------	C.3.4.4	--	--	--
			01444	00004	----------	C.2.1.1	--	--	--
	Johnson, Willard E.		00201	00001	----------	C.7.3	--	--	--
			00201	00002	----------	C.7.3	--	--	--
			00201	00003	----------	C.7.3	--	--	--
	Johnson, A.		01476	00001	----------	C.2.1.1	--	--	--
			01476	00002	----------	C.3.4.4	--	--	--
			01476	00003	----------	C.3.1.1	--	--	--
			01476	00004	----------	C.2.7	--	--	--
			01476	00005	----------	C.3.1.2	--	--	--
			01476	00009	----------	C.2.4.1	--	--	--
			01476	00010	----------	C.2.3.3	--	--	--
			01476	00015	----------	C.3.1.2	--	--	--
			01476	00017	----------	C.3.4.4	--	--	--
	Kearns, Ardis		01581	00001	----------	C.2.4.1	--	--	--
			01581	00002	----------	C.2.4.1	C.7.3	--	--
			01581	00003	----------	C.2.4.1	--	--	--
			01581	00004	----------	C.2.4.1	C.7.3	--	--
			01581	00005	----------	C.2.4.1	--	--	--
			01581	00006	----------	C.2.8.3	--	--	--
			01581	00007	----------	C.2.4.1	--	--	--
			01581	00008	----------	C.2.4.1	--	--	--
			01581	00009A	----------	C.3.1.2	--	--	--
			01581	00009B	----------	C.2.4.1	--	--	--
			01581	00010	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
	Knapp, Bob		01433	00001	----------	C.3.4.4	--	--	--
	Koncher, Louis		00138	00001	----------	C.2.8	--	--	--
			00138	00004	----------	C.2.1.1	--	--	--
	Kouslier, Louis		00426	00001	----------	C.2.8	--	--	--
			00426	00002	----------	C.3.4.4	--	--	--
			00426	00003	----------	C.2.1.1	--	--	--
	Kretschmer, Theresa		00510	00001	----------	C.2.7	--	--	--
			00510	00003	----------	C.3.4.4	--	--	--
			00510	00006	----------	C.2.2	C.2.3	--	--
	Kretschmer, Theresa		01483	00001	----------	C.2.6.1	--	--	--
			01483	00002	----------	C.2.4.1	--	--	--
			01483	00006	----------	C.2.4.1	C.7.3	--	--
			01483	00007	----------	C.2.4.1	--	--	--
	Kulas, Pauline A.		00514	00001	----------	C.3.4.4	--	--	--
			00514	00003	----------	C.3.4.4	--	--	--
	Kulas, Kathy Ann		00515	00001	----------	C.3.4.4	--	--	--
			00515	00002	----------	C.2.4.1	--	--	--
			00515	00003	----------	C.3.4.4	--	--	--
	Kulas, Kenneth M.		00518	00001	----------	C.3.4.4	--	--	--
	Kutenai, K.		01456	00001	----------	C.3.1.2	--	--	--
			01456	00002	----------	C.3.1.2	C.4.1.1	--	--
			01456	00003	----------	C.2.4.1	--	--	--
			01456	00005	----------	C.2.8.3	--	--	--
	Loux, Robert		01448	00001	----------	C.3.4.4	C.4.1.1	--	--
			01448	00003	----------	C.2.2	--	--	--
			01448	00004	----------	C.3.1.2	--	--	--
			01448	00005	----------	C.2.7	--	--	--
	Loux, Robert	Gov's Nuclear Waste Office	01407	00001	----------	C.3.4.4	--	--	--
			01407	00002	----------	C.3.4.4	--	--	--
			01407	00007	----------	C.2.4.1	C.7.2	--	--
			01407	00008	----------	C.2.4.1	--	--	--
			01407	00009	----------	C.3.1.2	--	--	--
			01407	00010	----------	C.2.7	--	--	--
	Loux, Robert	Nuclear Waste Project Office	02640	00001	----------	C.3.4.4	--	--	--
			02640	00002	----------	C.3.1.2	--	--	--
			02640	00003	----------	C.3.1	--	--	--
			02640	00004	----------	C.3.1.3	--	--	--
			02640	00005	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			02640	00006	----------	C.3.1.2	--	--	--
			02640	00007	----------	C.3.1.2	C.7.4	--	--
			02640	00008	----------	C.3.1.2	--	--	--
			02640	00009	----------	C.2.1.2	--	--	--
			02640	00010	----------	C.3.1.2	--	--	--
			02640	00011A	----------	C.3.4.1	--	--	--
			02640	00011B	----------	C.3.4.1	--	--	--
			02640	00011C	----------	C.3.4.4	--	--	--
			02640	00012	----------	C.3.4.3	--	--	--
			02640	00014	----------	C.3.4.3	--	--	--
			02640	00015	----------	C.3.1.1	--	--	--
			02640	00016	----------	C.2.4.1	--	--	--
			02640	00017	----------	C.2.2.1	--	--	--
			02640	00018	----------	C.2.3.1	--	--	--
			02640	00021	----------	C.2.4.1	C.4.1.5	--	--
			02640	00023	----------	C.2.6.1	--	--	--
			02640	00024	----------	C.2.6.1	--	--	--
			02640	00025	----------	C.2.4.1	--	--	--
			02640	00026	----------	C.2.5.1	--	--	--
			02640	00027	----------	C.2.5.1	--	--	--
			02640	00028	----------	C.2.5.1	C.3.1.3	--	--
			02640	00029	----------	C.2.5.1	--	--	--
			02640	00030	----------	C.2.4.1	--	--	--
			02640	00031	----------	C.2.4.1	--	--	--
			02640	00032	----------	C.2.4.1	--	--	--
			02640	00033	----------	C.2.4.1	--	--	--
			02640	00034	----------	C.2.4.1	--	--	--
			02640	00035	----------	C.3.4.3	--	--	--
			02640	00036	----------	C.2.4.1	--	--	--
			02640	00038	----------	C.2.7	--	--	--
			02640	00100	----------	C.3.1.1	--	--	--
			02640	00106	----------	C.3.1.2	C.3.1.3	--	--
			02640	00107	----------	C.3.1.2	C.3.1.3	--	--
			02640	00108	----------	C.3.1.2	C.3.1.3	--	--
			02640	00109	----------	C.3.1.2	--	--	--
			02640	00110	----------	C.3.1.2	--	--	--
			02640	00111	----------	C.3.1.2	--	--	--
			02640	00112	----------	C.2.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			02640	00114	----------	C.2.7	C.3.1.3	--	--
			02640	00115	----------	C.2.8.2	C.3.1.3	--	--
			02640	00116	----------	C.2.7	--	--	--
			02640	00117	----------	C.2.1.3	--	--	--
			02640	00118	----------	C.2.4.1	--	--	--
			02640	00119	----------	C.2.4.2	--	--	--
			02640	00120	----------	C.2.7.1	--	--	--
			02640	00121	----------	C.2.7.1	--	--	--
			02640	00124	----------	C.3.1.2	--	--	--
			02640	00125	----------	C.3.1.2	--	--	--
	Lowicki, Peter		01415	00001	----------	C.2.1.1	--	--	--
			01415	00002	----------	C.2.7	--	--	--
			01415	00003	----------	C.2.7	--	--	--
			01415	00004	----------	C.2.8.2	--	--	--
			01415	00005	----------	C.2.7	C.3.5	--	--
			01415	00006	----------	C.3.1.1	--	--	--
			01415	00007	----------	C.2.4.1	C.7.2	--	--
			01415	00008	----------	C.2.7	--	--	--
	Lurie, Mayor Ron		01408	00001	----------	C.2.7	--	--	--
			01408	00002	----------	C.2.7	--	--	--
			01408	00003	----------	C.2.4.1	--	--	--
			01408	00004	----------	C.2.4.1	--	--	--
			01408	00005	----------	C.2.2.1	--	--	--
			01408	00006	----------	C.2.4.1	--	--	--
	Macaulay, B.		01465	00001	----------	C.2.1.1	--	--	--
			01465	00002	----------	C.2.1.1	C.7.3	--	--
			01465	00005	----------	C.2.4.1	--	--	--
			01465	00007	----------	C.3.4.4	--	--	--
	Markoff, Mike		01443	00001	----------	C.2.1.1	--	--	--
	Markoff, Mike		01445	00001	----------	C.2.4.1	--	--	--
			01445	00002	----------	C.2.1.1	--	--	--
	Marshall, Lawrence		01484	00001	----------	C.3.4.4	--	--	--
	McFarland, Linda	Amargosa Town Advisory Council	01403	00001	----------	C.3.4.4	--	--	--
	McGirk, Blair		01481	00001	----------	C.3.4.4	--	--	--
			01481	00002	----------	C.3.4.4	--	--	--
			01481	00003	----------	C.3.1.2	C.7.3	--	--
			01481	00007	----------	C.2.8.1	--	--	--
			01481	00008	----------	C.2.5.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			01481	00009	----------	C.2.6.1	--	--	--
	McKey, Mary		01480	00002	----------	C.3.4.4	--	--	--
			01480	00003	----------	C.3.4.4	--	--	--
	Mifflin, Martin	Water Resources Center	02659	00005	----------	C.3.1.2	--	--	--
			02659	00006	----------	C.2.7	C.2.8	--	--
			02659	00007	----------	C.2.7	C.2.8	--	--
			02659	00015	----------	C.2.8.3	C.4.1.3.3	--	--
			02659	00016	----------	C.2.8.3	C.4.1.3.3	--	--
			02659	00080	----------	C.2.7	C.5.2	--	--
			02659	00091	----------	C.2.7	C.3.1.3	--	--
			02659	00092	----------	C.2.7	C.3.1.3	--	--
			02659	00095	----------	C.2.7	C.4.1.2.2	--	--
			02659	00106	----------	C.2.7	C.4.1.2.2	--	--
			02659	00107	----------	C.2.7	C.4.3	--	--
			02659	00108	----------	C.3.1.2	--	--	--
			02659	00109	----------	C.3.1.2	--	--	--
			02659	00329	----------	C.3.4	--	--	--
			02659	00331	----------	C.3.4	--	--	--
			02659	00332	----------	C.3.4	--	--	--
			02659	00333	----------	C.3.4	--	--	--
			02659	00335	----------	C.3.4	--	--	--
			02659	00336	----------	C.3.4	--	--	--
			02659	00337	----------	C.3.4	--	--	--
			02659	00338	----------	C.3.4	--	--	--
			02659	00339	----------	C.3.4	--	--	--
			02659	00341	----------	C.2.7	--	--	--
			02659	00342	----------	C.3.4	--	--	--
			02659	00343	----------	C.3.1.2	--	--	--
			02659	00344	----------	C.3.1.2	--	--	--
	Miller, Glen		01485	00005	----------	C.3.1.2	--	--	--
	Millman, Dr. J.		01458	00001	----------	C.2.3.1	--	--	--
			01458	00003	----------	C.2.3.3	--	--	--
			01458	00005	----------	C.2.8.1	--	--	--
			01458	00006	----------	C.3.4.4	--	--	--
	Mills, Joe		01436	00002	----------	C.2.8.2	--	--	--
	Montrose, K. Hugh	Lovelock City Council	01430	00001	----------	C.3.4.4	--	--	--
	Oakley, Bessie		01491	00001	----------	C.2.1.1	--	--	--
			01491	00002	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
	Painter, Ms.		01473	00003	----------	C.2.4.1	C.7.3	--	--
			01473	00004	----------	C.2.6.1	--	--	--
	Palich, Joseph		01573	00001	----------	C.3.4.4	--	--	--
			01573	00002	----------	C.2.5.2	--	--	--
	Peterson, Dan		01404	00003	----------	C.2.1.2	--	--	--
			01404	00004	----------	C.2.1.2	--	--	--
			01404	00005	----------	C.2.1.2	--	--	--
	Petition		01425	00001	----------	C.3.1.2	--	--	--
	Poulos, R. Jane	City of North Las Vegas	02646	00001	----------	C.2.7	--	--	--
			02646	00020	----------	C.2.4.1	--	--	--
			02646	00021	----------	C.2.4.1	--	--	--
			02646	00022	----------	C.2.4.1	--	--	--
			02646	00024	----------	C.3.1.2	--	--	--
			02646	00028	----------	C.2.4.1	--	--	--
			02646	00029	----------	C.2.4.1	--	--	--
			02646	00034	----------	C.2.4.1	C.4.1.3.7	--	--
			02646	00035	----------	C.2.4.1	C.4.1.3.7	--	--
			02646	00036	----------	C.2.4.1	C.4.1.3.7	--	--
			02646	00037	----------	C.2.4.1	--	--	--
			02646	00038	----------	C.2.4.1	--	--	--
			02646	00039	----------	C.2.5	--	--	--
			02646	00040	----------	C.2.5	--	--	--
			02646	00041	----------	C.2.7	--	--	--
			02646	00042	----------	C.2.4.1	--	--	--
			02646	00043	----------	C.2.4.1	--	--	--
			02646	00044	----------	C.2.5	--	--	--
			02646	00045	----------	C.2.4.1	--	--	--
			02646	00046	----------	C.3.4.2.2	--	--	--
			02646	00048	----------	C.2.4.1	--	--	--
			02646	00049	----------	C.2.4.1	--	--	--
			02646	00050	----------	C.2.4.1	C.7.3	--	--
			02646	00054	----------	C.2.3.2	--	--	--
			02646	00055	----------	C.2.4.1	--	--	--
			02646	00056	----------	C.2.4.1	--	--	--
			02646	00057	----------	C.2.4.1	--	--	--
			02646	00058	----------	C.2.3.2	--	--	--
			02646	00059	----------	C.2.4.1	--	--	--
			02646	00060	----------	C.2.3.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			02646	00061	----------	C.2.1.3	--	--	--
	Rader, Scott		01487	00002	----------	C.2.4.1	C.7.3	--	--
	Reinsehl, Toni		01421	00001	----------	C.2.3.2	--	--	--
	Reiss, B.		01464	00001	----------	C.3.4.2.1	--	--	--
	Robbins, E.		01477	00002	----------	C.7.3	--	--	--
	Robertson, J.		01460	00002	----------	C.3.4.4	--	--	--
			01460	00003	----------	C.2.4.1	C.7.3	--	--
	Robinson, William J.	UNLV Bus. & Econo. Research	02652	00001	----------	C.2.7	--	--	--
			02652	00002	----------	C.2.7	--	--	--
			02652	00003	----------	C.2.7	--	--	--
			02652	00011	----------	C.2.5	--	--	--
			02652	00013	----------	C.2.4.1	C.7.4	--	--
			02652	00040	----------	C.2.4.1	C.7.3	--	--
	Rosse, Verne	St of NV, Dept Conserv & Nat Res	02650	00001	----------	C.2.1.2	--	--	--
			02650	00002A	----------	C.3.1.2	--	--	--
			02650	00002B	----------	C.3.4	--	--	--
			02650	00029	----------	C.3.1.2	--	--	--
			02650	00030	----------	C.3.1.2	--	--	--
	Rosse, Mr.	Western Shoshone National Councl	01450	00002	----------	C.2.4.1	--	--	--
			01450	00005	----------	C.3.1.2	--	--	--
		Yomba Shoshone Tribe	01451	00001	----------	C.3.4.4	--	--	--
	Schilling, John	NV Bureau of Mines & Geology	02648	00005	----------	C.3.1.2	--	--	--
			02648	00006	----------	C.2.3.1	--	--	--
			02648	00055	----------	C.3.4	--	--	--
			02648	00056	----------	C.3.4.2.3	--	--	--
			02648	00057	----------	C.3.4	--	--	--
	Shire, D.H.		00358	00001	----------	C.3.4.4	--	--	--
	Shire, Durward		01442	00001	----------	C.2.8.1	--	--	--
	Sill, M.		01468	00001	----------	C.3.4.4	--	--	--
			01468	00002	----------	C.3.1.2	--	--	--
			01468	00006	----------	C.2.4.1	C.7.3	--	--
			01468	00007	----------	C.2.4.1	--	--	--
			01468	00008	----------	C.2.4.1	--	--	--
			01468	00009	----------	C.2.4.1	--	--	--
			01468	00010	----------	C.2.4.1	C.7.3	--	--
	Sill, M.		02641	00001	----------	C.2.4.2	C.7.3	--	--
			02641	00002	----------	C.2.1.1	C.2.8.2	C.3.7	--
			02641	00004	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			02641	00005	----------	C.2.1.4	--	--	--
			02641	00006	----------	C.2.7	--	--	--
			02641	00007	----------	C.2.7	--	--	--
			02641	00014	----------	C.2.7	C.3.1.1	--	--
			02641	00019	----------	C.2.8.3	--	--	--
			02641	00021	----------	C.2.7	--	--	--
			02641	00022	----------	C.2.7	--	--	--
			02641	00023A	----------	C.2.7	--	--	--
			02641	00023B	----------	C.2.7	--	--	--
			02641	00024	----------	C.2.7	--	--	--
			02641	00025	----------	C.2.7	--	--	--
			02641	00026	----------	C.2.7	--	--	--
			02641	00027	----------	C.2.7	--	--	--
			02641	00029	----------	C.2.7	--	--	--
			02641	00030	----------	C.2.7	--	--	--
			02641	00031	----------	C.2.7	--	--	--
			02641	00032	----------	C.2.7	--	--	--
			02641	00033	----------	C.2.7	--	--	--
			02641	00034	----------	C.2.7	--	--	--
			02641	00035	----------	C.2.7	--	--	--
			02641	00036	----------	C.3.1.2	C.3.1.3	--	--
			02641	00037	----------	C.3.1.2	--	--	--
			02641	00038	----------	C.3.1.2	C.3.1.3	--	--
			02641	00040	----------	C.3.1.2	--	--	--
			02641	00041	----------	C.4.1	--	--	--
			02641	00042	----------	C.3.1.2	--	--	--
			02641	00043	----------	C.3.1.2	--	--	--
			02641	00044	----------	C.3.1.2	--	--	--
			02641	00045	----------	C.3.1.1	--	--	--
			02641	00057	----------	C.3.1.2	--	--	--
			02641	00058	----------	C.2.7	--	--	--
			02641	00059	----------	C.2.8.2	--	--	--
			02641	00060	----------	C.3.1.2	--	--	--
			02641	00061	----------	C.3.1.2	--	--	--
			02641	00062	----------	C.3.1.2	--	--	--
			02641	00063	----------	C.3.1.2	--	--	--
			02641	00064	----------	C.3.1.2	--	--	--
			02641	00065	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			02641	00066	----------	C.3.1.2	--	--	--
			02641	00068	----------	C.3.1.2	--	--	--
			02641	00069	----------	C.3.1.2	--	--	--
			02641	00070	----------	C.3.1.2	C.5.4	--	--
			02641	00071	----------	C.3.1.2	C.5.4	--	--
			02641	00072	----------	C.3.1.2	--	--	--
			02641	00073	----------	C.3.1.2	C.3.1.3	--	--
			02641	00074	----------	C.3.1.2	--	--	--
			02641	00075	----------	C.3.1.2	--	--	--
			02641	00076	----------	C.3.1.2	--	--	--
			02641	00077	----------	C.3.1.2	--	--	--
			02641	00078	----------	C.3.1.2	--	--	--
			02641	00079	----------	C.3.1.2	C.3.1.3	--	--
			02641	00080	----------	C.3.1.2	C.3.1.3	--	--
			02641	00081	----------	C.2.1.2	--	--	--
			02641	00082	----------	C.3.1.2	--	--	--
			02641	00083	----------	C.3.1.2	--	--	--
			02641	00084	----------	C.3.1.2	--	--	--
			02641	00085	----------	C.3.1.2	--	--	--
			02641	00086	----------	C.3.1.2	--	--	--
			02641	00087	----------	C.3.1.2	--	--	--
			02641	00088	----------	C.3.1.2	--	--	--
			02641	00089	----------	C.3.1.2	--	--	--
			02641	00090	----------	C.3.1.2	--	--	--
			02641	00108	----------	C.2.7	--	--	--
			02641	00160	----------	C.2.4.1	--	--	--
			02641	00165	----------	C.2.4.1	--	--	--
			02641	00169	----------	C.2.4.1	C.4.1.4	--	--
			02641	00217	----------	C.2.1.2	--	--	--
			02641	00218	----------	C.2.1.1	--	--	--
			02641	00255	----------	C.2.1.2	--	--	--
			02641	00267	----------	C.2.8.3	--	--	--
			02641	00269	----------	C.2.6.1	--	--	--
			02641	00270	----------	C.2.6	--	--	--
			02641	00289	----------	C.3.4.4	--	--	--
			02641	00290	----------	C.2.4.1	--	--	--
			02641	00304	----------	C.2.4.1	--	--	--
			02641	00307	----------	C.5.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			02641	00308	----------	C.2.4.1	C.7.3	--	--
			02641	00309	----------	C.2.6.1	--	--	--
			02641	00311	----------	C.2.4.1	C.7.3	--	--
			02641	00312	----------	C.2.4.1	--	--	--
			02641	00314	----------	C.2.4.1	--	--	--
			02641	00315	----------	C.2.4.1	--	--	--
			02641	00316	----------	C.2.4.1	--	--	--
			02641	00317	----------	C.2.4.1	--	--	--
			02641	00318	----------	C.2.4.1	--	--	--
			02641	00319	----------	C.2.4.1	--	--	--
			02641	00320	----------	C.2.4.1	--	--	--
			02641	00321	----------	C.2.6.1	--	--	--
			02641	00322	----------	C.2.4.1	C.7.3	--	--
			02641	00323	----------	C.2.4.1	--	--	--
			02641	00331	----------	C.2.7	--	--	--
			02641	00332	----------	C.2.7	--	--	--
			02641	00333	----------	C.2.7	--	--	--
			02641	00335	----------	C.3.4.2.2	--	--	--
			02641	00427	----------	C.2.4.1	C.7.3	--	--
			02641	00429	----------	C.2.4.1	C.7.3	--	--
			02641	00430	----------	C.2.4.1	--	--	--
			02641	00431	----------	C.2.4.1	C.7.3	--	--
			02641	00432	----------	C.2.4.1	--	--	--
			02641	00433	----------	C.2.4.1	--	--	--
			02641	00434	----------	C.2.4.1	--	--	--
			02641	00441	----------	C.2.4.1	C.7.3	--	--
			02641	00442	----------	C.2.4.1	--	--	--
			02641	00553	----------	C.3.4.3	--	--	--
			02641	00554	----------	C.3.4.3	--	--	--
			02641	00555	----------	C.3.4.3	--	--	--
			02641	00556	----------	C.3.4.3	--	--	--
			02641	00557	----------	C.3.4.3	--	--	--
			02641	00558	----------	C.3.4.3	--	--	--
			02641	00559	----------	C.3.4.3	--	--	--
			02641	00560	----------	C.3.4.1	--	--	--
			02641	00562	----------	C.3.4.1	--	--	--
			02641	00563	----------	C.2.8.3	--	--	--
			02641	00565	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			02641	00566	----------	C.3.4.1	--	--	--
			02641	00567	----------	C.3.1.1	C.3.4.1	--	--
			02641	00568	----------	C.3.4.1	--	--	--
			02641	00571	----------	C.3.4.1	--	--	--
			02641	00572	----------	C.3.4.1	--	--	--
			02641	00573	----------	C.3.4.1	--	--	--
			02641	00575	----------	C.3.4.1	--	--	--
			02641	00576	----------	C.3.4.1	--	--	--
			02641	00577	----------	C.3.4.1	--	--	--
			02641	00578	----------	C.3.4.1	--	--	--
			02641	00579	----------	C.3.4.1	--	--	--
			02641	00585	----------	C.3.1.1	--	--	--
			02641	00586	----------	C.3.1.1	--	--	--
			02641	00588	----------	C.3.4.2.2	C.3.1.3	--	--
			02641	00589	----------	C.3.4.2.2	C.3.1.3	--	--
			02641	00590	----------	C.3.4.2.2	C.4.1.2.3	--	--
			02641	00591	----------	C.3.4.2.2	C.4.1.2.3	--	--
			02641	00592	----------	C.3.4.2.2	C.4.1.2.3	--	--
			02641	00593	----------	C.3.4.2.2	--	--	--
			02641	00594	----------	C.3.4.2.2	C.3.4.3	--	--
			02641	00595	----------	C.3.4.3	--	--	--
			02641	00596	----------	C.3.4.3	--	--	--
			02641	00597	----------	C.3.4.3	--	--	--
			02641	00598	----------	C.3.4.2.2	--	--	--
			02641	00599	----------	C.3.4.2.2	--	--	--
			02641	00600	----------	C.3.4.2.2	--	--	--
			02641	00601	----------	C.3.4.2.2	--	--	--
			02641	00603	----------	C.3.4.2.3	--	--	--
			02641	00605	----------	C.3.4.2.3	C.3.1.3	--	--
			02641	00606	----------	C.3.4.2.3	--	--	--
			02641	00607	----------	C.3.4.2.3	--	--	--
			02641	00608	----------	C.3.4.2.3	--	--	--
			02641	00609	----------	C.3.4.2.3	--	--	--
			02641	00610	----------	C.3.4.2.3	--	--	--
			02641	00611	----------	C.3.4.2.3	--	--	--
			02641	00612	----------	C.3.4.2.3	--	--	--
			02641	00613	----------	C.3.4.2.3	--	--	--
			02641	00614	----------	C.3.4.2.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			02641	00615	----------	C.3.4.3	--	--	--
			02641	00616	----------	C.3.4.3	--	--	--
			02641	00617	----------	C.3.4.3	--	--	--
			02641	00618	----------	C.3.4.3	--	--	--
			02641	00619	----------	C.3.4.3	--	--	--
			02641	00620	----------	C.3.4.3	--	--	--
			02641	00621	----------	C.3.4.3	--	--	--
			02641	00622	----------	C.3.4.3	--	--	--
			02641	00623	----------	C.2.4.1	--	--	--
			02641	00624	----------	C.2.4.1	--	--	--
			02641	00625	----------	C.2.4.1	--	--	--
			02641	00626	----------	C.2.4.1	--	--	--
			02641	00627	----------	C.2.4.1	--	--	--
			02641	00628	----------	C.2.4.1	--	--	--
			02641	00629	----------	C.2.4.1	--	--	--
			02641	00630	----------	C.2.4.1	--	--	--
			02641	00631	----------	C.2.4.1	--	--	--
			02641	00632	----------	C.2.4.1	--	--	--
			02641	00633	----------	C.2.4.1	--	--	--
			02641	00634	----------	C.2.4.1	--	--	--
			02641	00635	----------	C.2.4.1	--	--	--
	Spencer, George	Union of Concerned Scientists	01410	00002	----------	C.3.4.4	--	--	--
	Strickland, Rose		01463	00001	----------	C.3.1.2	--	--	--
			01463	00002	----------	C.3.1.2	--	--	--
			01463	00003	----------	C.2.8.1	--	--	--
			01463	00004	----------	C.3.1.2	--	--	--
			01463	00005	----------	C.3.1.2	--	--	--
			01463	00006	----------	C.3.1.2	--	--	--
	Strickland, Rose	Sierra Club	01316	00003	----------	C.2.4.1	--	--	--
			01316	00006	----------	C.2.1.1	--	--	--
	Tanne, Sydney		01424	00004	----------	C.2.1.1	--	--	--
	Tanner, K.		01475	00003	----------	C.2.4.1	--	--	--
			01475	00005	----------	C.3.4.4	--	--	--
			01475	00006	----------	C.2.8.1	--	--	--
			01475	00007	----------	C.3.4.4	--	--	--
	Terlizzi, Loretta		00425	00001	----------	C.3.4.4	--	--	--
			00425	00002	----------	C.2.8	--	--	--
	Terlizzi, Loretta		00519	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
			00519	00002	----------	C.3.4.4	--	--	--
			00519	00003	----------	C.2.8.2	--	--	--
			00519	00004	----------	C.3.4.4	--	--	--
	Thomason, Jack	City of Las Vegas	02645	00001	----------	C.2.4.1	--	--	--
			02645	00002	----------	C.2.4.1	--	--	--
			02645	00003	----------	C.2.4.1	--	--	--
			02645	00007	----------	C.2.3.1	--	--	--
			02645	00008	----------	C.2.4.1	--	--	--
			02645	00009	----------	C.2.4.1	--	--	--
			02645	00010	----------	C.2.4.1	--	--	--
			02645	00014	----------	C.2.4.1	--	--	--
			02645	00015	----------	C.2.4.1	--	--	--
			02645	00016	----------	C.2.4.1	--	--	--
	Treichel, J.		01417	00001	----------	C.3.4.4	--	--	--
			01417	00002	----------	C.3.1.2	--	--	--
			01417	00004	----------	C.3.4.4	--	--	--
			01417	00005	----------	C.3.4.4	--	--	--
			01417	00008	----------	C.2.5.2	C.6.4	--	--
	Trinko, Mark		01447	00001	----------	C.3.1.2	--	--	--
	Twedt, P.		01479	00002	----------	C.2.1.1	--	--	--
			01479	00003	----------	C.2.1.1	--	--	--
			01479	00004	----------	C.2.1.1	--	--	--
			01479	00005	----------	C.2.1.2	--	--	--
			01479	00006	----------	C.2.1.2	--	--	--
	Van Neuren, Heimi		01413	00001	----------	C.2.7	--	--	--
			01413	00002	----------	C.2.4.1	--	--	--
			01413	00003	----------	C.2.4.1	--	--	--
			01413	00004	----------	C.3.1.2	--	--	--
			01413	00005	----------	C.3.4.4	--	--	--
	Vincent, Bill	Sthrn. Coord. for Cit. Alert	01418	00001	----------	C.2.4.1	C.7.3	--	--
			01418	00002	----------	C.2.4.1	C.7.3	--	--
			01418	00003	----------	C.2.4.1	C.7.3	--	--
			01418	00004	----------	C.2.4.1	C.7.3	--	--
	Wasson, G.	Shoshone Indians	01469	00004	----------	C.2.3.3	--	--	--
			01469	00006	----------	C.3.1.2	--	--	--
			01469	00007	----------	C.2.8.1	--	--	--
	Watson, C.		01467	00004	----------	C.2.4.1	--	--	--
			01467	00005	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Nevada (continued)									
	Weiss, Tom		01490	00001	----------	C.2.1.1	--	--	--
	Williams, A.		01472	00001	----------	C.2.8	--	--	--
			01472	00003	----------	C.3.1.2	--	--	--
	Wilson, Robert D.	City of Henderson	02647	00001	----------	C.2.4.1	--	--	--
			02647	00002	----------	C.2.4.1	--	--	--
			02647	00003	----------	C.2.4.1	--	--	--
			02647	00004	----------	C.2.4.1	--	--	--
			02647	00005	----------	C.2.4.1	--	--	--
			02647	00006	----------	C.2.4.1	--	--	--
			02647	00007	----------	C.2.4.1	--	--	--
	Wyman, Richard	Civil & Mech. Engineering	01423	00001	----------	C.3.4.4	--	--	--
	Zorn, Ann	League of Women Voters of Nevada	01119	00003	----------	C.2.1.1	--	--	--
			01119	00004	----------	C.2.1.1	--	--	--
			01119	00005	----------	C.2.1.5	--	--	--
			01119	00006	----------	C.2.4.1	--	--	--
			01119	00007	----------	C.2.4.1	--	--	--
			01119	00008	----------	C.2.4.1	--	--	--
			01119	00009	----------	C.2.4.1	--	--	--
			01119	00010	----------	C.2.4.1	--	--	--
			01119	00011	----------	C.2.4.1	--	--	--
			01119	00016	----------	C.3.3	--	--	--
			01119	00017	----------	C.3.4.3	--	--	--
			01119	00018	----------	C.2.1.1	--	--	--
			01119	00019	----------	C.2.7	--	--	--
	Zorn, Ann	NV League of Women Voters	01419	00001	----------	C.2.1.1	--	--	--
			01419	00002	----------	C.3.4.3	--	--	--
			01419	00006	----------	C.2.4.1	C.7.3	--	--
			01419	00007	----------	C.2.8.3	C.7.3	--	--
			01419	00008	----------	C.2.4.1	C.7.3	--	--
			01419	00011	----------	C.2.4.1	--	--	--
			01419	00014	----------	C.2.6	--	--	--
			01419	00015	----------	C.2.4.1	--	--	--
			01419	00017	----------	C.2.1.2	C.7.4.2	C.7.4.5	--
New York									
	Cardlin, Nancy		00093	00001	----------	C.3.4.4	--	--	--
			00093	00002A	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
New York (continued)									
			00093	00002B	DC	C.6.5	--	--	--
			00093	00003	----------	C.3.4.4	--	--	--
			00093	00004	DC	C.7.4	--	--	--
	Concra, Jr., Louis M.	NY State Dept. Envir. Conserv.	01570	00001	----------	C.2.4.1	--	--	--
			01570	00002	----------	C.2.4.1	--	--	--
			01570	00003	----------	C.2.4.1	--	--	--
			01570	00004	----------	C.2.4.1	--	--	--
			01570	00005	----------	C.2.4.1	--	--	--
			01570	00006	----------	C.2.4.1	--	--	--
			01570	00007	----------	C.2.4.1	--	--	--
			01570	00008	----------	C.2.4.1	--	--	--
			01570	00009	----------	C.2.4.1	--	--	--
			01570	00010	----------	C.2.4.1	--	--	--
	Constant, Robert L.	Donaldson, Lufkin & Jenrette	01583	00001	----------	C.3.1.2	--	--	--
	Copeland, Dr. Robert L.		00065	00001	----------	C.3.1.2	--	--	--
			00065	00002	DC	C.7.2	--	--	--
	Crocco, Vera B.		00423	00001	DC	C.3.1.3	--	--	--
	Crocco, Evelyn A.		00459	00001	----------	C.3.4.4	--	--	--
	Diserlo, Matthew J.	Donaldson, Lufkin & Jenrette	01571	00001	----------	C.3.1.2	--	--	--
	Forster, James		00281	00001	DC	C.7.4	--	--	--
	Hale, Mary		00355	00001	----------	C.3.1.2	--	--	--
	Hazel, James		00148	00001	----------	C.3.1.2	--	--	--
			00148	00002	DC	C.7.2	--	--	--
	Khan, Bebe		00360	00001	DC	C.7.2	--	--	--
			00360	00002	DC	C.7.1.1	--	--	--
			00360	00003	DC	C.7.4	--	--	--
			00360	00004	DC	C.7.2.4	--	--	--
	Le Roy, Mary		00112	00001	----------	C.3.4.4	--	--	--
			00112	00002	DC	C.7.2	--	--	--
			00112	00003	----------	C.3.4.4	--	--	--
	Norr, Carol		00305	00001	----------	C.3.4.4	--	--	--
	Simon, Davis		01101	00001	----------	C.3.4.4	--	--	--
	Wakefield, D. Audrey		01285	00001	DC	C.7.2	--	--	--
			01285	00002	DC	C.7.2.4	--	--	--
			01285	00003	DC	C.7.2.6	--	--	--
			01285	00004	----------	C.3.4.4	--	--	--
	Walker, Jean		01551	00001	DC	C.7.4	--	--	--
			01551	00002	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
New York (continued)									
	Walker, Franklin V.		02076	00001	----------	C.3.1.2	--	--	--
			02076	00002	----------	C.3.1.2	--	--	--
	Werzinski, Joseph		02113	00001	----------	C.2.1.1	--	--	--
			02113	00002	----------	C.2.4.1	--	--	--
			02113	00003	----------	C.7.2	--	--	--
			02113	00004	----------	C.7.4	--	--	--
North Carolina									
	Daland, Robert T.	Univ. N.C./ Chapel Hill	00042	00001	DC	C.7.2	--	--	--
			00042	00002	DC	C.7.2	--	--	--
			00042	00003	DC	C.7.2	--	--	--
			00042	00004	DC	C.7.2	--	--	--
Ohio									
	Clark, Judith		02608	00001	----------	C.3.1.2	--	--	--
			02608	00002	----------	C.3.1.2	--	--	--
			02608	00003	----------	C.2.8.1	--	--	--
	Sauer, Rodney		01186	00001	DC	C.7.2.4	--	--	--
			01186	00002	----------	C.2.3	--	--	--
	Walter, Laura		00207	00001	----------	C.3.4.4	--	--	--
			00207	00002	DC	C.7.2	--	--	--
			00207	00003	----------	C.2.3.2	--	--	--
			00207	00004	DC	C.7.1.1	--	--	--
Oklahoma									
	Dalton, Jr., Andrew L.	Attorney at Law	00084	00001	----------	C.3.4.4	--	--	--
			00084	00002	DC	C.7.2	--	--	--
	Stevens, Dr. Larry Charles		02106	00001	DC	C.7.1.1.5	C.7.2.5	--	--
			02106	00002	DC	C.7.1.1.4	C.7.2.4	--	--
			02106	00003	DC	C.5.10	--	--	--
			02106	00004	DC	C.7.1.1.4	C.7.2.4	--	--
			02106	00005	DC	C.7.2.5	C.7.2.6	--	--
	Walker, Mrs. Charles H.		00224	00001	DS	C.5.1	--	--	--
	Williams, Janice L.		02120	00001	DS	C.5.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon									
	Adams, J. Ross & Lois H.		00543	00001	----------	C.3.4.4	--	--	--
	Amara, Mark & Margaret		01128	00001	----------	C.2.3.3	--	--	--
			01128	00002	----------	C.2.8.3	--	--	--
			01128	00003	----------	C.2.3.1	--	--	--
			01128	00005	----------	C.2.8.3	--	--	--
			01128	00012	----------	C.2.4.1	--	--	--
			01128	00013	----------	C.3.1.2	--	--	--
			01128	00015	----------	C.2.2	--	--	--
			01128	00017	----------	C.2.4.1	--	--	--
			01128	00018	----------	C.3.1.2	--	--	--
			01128	00019	----------	C.2.4.1	--	--	--
	Anderson, Harvard		02441	00002	----------	C.3.4.4	--	--	--
			02441	00004	----------	C.3.4.4	--	--	--
			02441	00005	----------	C.3.4.4	--	--	--
			02441	00006	----------	C.3.4.4	--	--	--
	Anderson, Judith		02475	00003	----------	C.2.10	--	--	--
			02475	00004	----------	C.3.4.4	--	--	--
			02475	00005	----------	C.2.3.1	--	--	--
			02475	00006	----------	C.2.3.1	--	--	--
			02475	00007	----------	C.2.1.1	--	--	--
	Andre, Mary Ellen		01163	00002	----------	C.2.3.3	--	--	--
	Anonymous	KGW-TV	02606	00001	----------	C.2.3.3	--	--	--
			02606	00002	----------	C.2.1.2	--	--	--
	Arum, John		02457	00001	----------	C.3.4.4	--	--	--
			02457	00002	----------	C.2.7	--	--	--
			02457	00003	----------	C.3.1.1	--	--	--
			02457	00004	----------	C.2.3.1	--	--	--
			02457	00005	----------	C.3.1.2	--	--	--
			02457	00006	----------	C.3.1.2	--	--	--
			02457	00010	----------	C.2.4.1	--	--	--
			02457	00011	----------	C.3.4.4	--	--	--
	Arum, John	Forelaws on Board	02694	00002A	----------	C.2.4.1	--	--	--
			02694	00002B	----------	C.2.6.1	--	--	--
	Ashburn, Dan		02446	00001	----------	C.3.4.4	--	--	--
			02446	00002	----------	C.2.1.1	--	--	--
			02446	00003	----------	C.2.8.1	--	--	--
	Ashburn, Daniel	WWSSG	01363	00001	----------	C.2.6.3	--	--	--
			01363	00002	----------	C.2.6.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			01363	00003	----------	C.3.1.2	--	--	--
			01363	00004	----------	C.3.4	--	--	--
	Bailey, Don W.		00476	00005	----------	C.3.4.4	--	--	--
	Barber, William		01592	00001	----------	C.3.4.4	--	--	--
	Barker, Rev., Catherine A.		01554	00001	----------	C.3.4.4	--	--	--
	Bauman, Rick		02469	00001	----------	C.2.1.2	--	--	--
			02469	00002	----------	C.2.1.2	--	--	--
			02469	00003	----------	C.2.3.3	--	--	--
	Bauman, Rick	House of Rep. Oregon Leg. Assemb.	01248	00001	----------	C.2.1.2	--	--	--
			01248	00001A	----------	C.2.1.2	--	--	--
			01248	00001B	----------	C.2.1.2	--	--	--
			01248	00002	----------	C.3.1.2	--	--	--
			01248	00009	----------	C.2.4.1	--	--	--
	Bell, Charles		02493	00001	----------	C.2.1.1	--	--	--
			02493	00003	----------	C.3.1.1	--	--	--
			02493	00004	----------	C.3.4.4	--	--	--
			02493	00005	----------	C.2.4.1	--	--	--
			02493	00006	----------	C.2.6.1	--	--	--
			02493	00007	----------	C.2.8.1	--	--	--
			02493	00009	----------	C.3.4.4	--	--	--
			02493	00010	----------	C.2.1.1	--	--	--
			02493	00011	----------	C.2.1.2	--	--	--
			02493	00012	----------	C.3.4.4	--	--	--
			02493	00013	----------	C.2.1.1	--	--	--
	Bell, Charles F.	Fellowship of Reconciliation	01305	00001	----------	C.2.3.3	--	--	--
			01305	00003B	----------	C.2.3		--	--
			01305	00004	----------	C.2.4.1	--	--	--
			01305	00005	----------	C.2.3	--	--	--
			01305	00008	----------	C.2.4.1	--	--	--
			01305	00009	----------	C.3.1.2	--	--	--
	Belsey, Dick		02473	00004	----------	C.2.3.1	--	--	--
			02473	00005	----------	C.2.3.2	--	--	--
	Berry, Diane	City of Echo	01319	00001	----------	C.2.3.3	--	--	--
			01319	00003	----------	C.2.4.1	C.7.3	--	--
			01319	00004	----------	C.3.1.2	--	--	--
	Bickett, Gary		01280	00001	----------	C.2.3.1	--	--	--
			01280	00002	----------	C.2.1.1	--	--	--
			01280	00003	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			01280	00005	----------	C.2.4.3	--	--	--
			01280	00011	----------	C.2.1.2	--	--	--
			01280	00012	----------	C.2.8.3	--	--	--
			01280	00015	----------	C.2.1.1	--	--	--
	Bickett, Gary		01320	00002	----------	C.2.3.1	--	--	--
			01320	00003	----------	C.2.1.1	--	--	--
			01320	00004	----------	C.3.4.4	--	--	--
			01320	00005	----------	C.3.1.2	--	--	--
			01320	00008	----------	C.2.4.1	--	--	--
			01320	00010	----------	C.2.1.2	--	--	--
			01320	00011	----------	C.2.8.3	--	--	--
			01320	00012	----------	C.2.8.2	--	--	--
			01320	00015	----------	C.2.1.1	--	--	--
			01320	00221	----------	C.2.7	--	--	--
	Bleckman, Laurie		02498	00001	----------	C.2.4.1	--	--	--
			02498	00002	----------	C.3.4.4	--	--	--
	Boon, Jayna A.		01099	00001	----------	C.3.4.4	--	--	--
			01099	00002	----------	C.3.1.2	--	--	--
	Borge, John		00544	00001	----------	C.3.4.4	--	--	--
			00544	00002	----------	C.3.1.2	C.7.3	--	--
	Bradbury, Senator Bill		02442	00004	----------	C.3.2	--	--	--
			02442	00012	----------	C.3.4.4	--	--	--
			02442	00013	----------	C.3.4.4	--	--	--
			02442	00014	----------	C.3.1.2	--	--	--
	Broadwell, Jo	Students for Nuclear Awareness	01359	00003	----------	C.3.1.1	--	--	--
			01359	00005	----------	C.2.8.1	--	--	--
			01359	00006A	----------	C.2.4.1	--	--	--
			01359	00006B	----------	C.3.4.4	--	--	--
	Bunch, Ron & Margaret		02085	00001	----------	C.3.1.2	--	--	--
			02085	00002	----------	C.3.1.2	--	--	--
			02085	00003	----------	C.3.1.2	--	--	--
			02085	00004	----------	C.3.4.4	--	--	--
			02085	00005	----------	C.3.1.2	--	--	--
	Carl, Lisa A.		01135	00001	----------	C.2.3.3	--	--	--
			01135	00005	----------	C.3.4.4	--	--	--
			01135	00006	----------	C.3.1.2	--	--	--
	Clagett, Bill		01241	00001	----------	C.2.1.1	--	--	--
			01241	00002	----------	C.2.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			01241	00003	----------	C.2.5.2	--	--	--
			01241	00004	----------	C.2.5.2	--	--	--
			01241	00005	----------	C.2.5.2	--	--	--
	Coulter, Karen L.		01354	00001	----------	C.3.4.4	--	--	--
			01354	00002	----------	C.2.3.3	--	--	--
			01354	00003	----------	C.3.1.2	--	--	--
			01354	00004	----------	C.3.1.2	--	--	--
			01354	00005	----------	C.3.4.4	--	--	--
			01354	00006	----------	C.2.3.1	--	--	--
			01354	00011	----------	C.2.4.1	--	--	--
			01354	00013	----------	C.2.1.2	--	--	--
	Crenshaw, Terry		01279	00001	----------	C.3.4.4	--	--	--
	Dave, Arita		02459	00001	----------	C.3.4.4	--	--	--
			02459	00002	----------	C.3.4.4	--	--	--
	Davies, Carol		02474	00002	----------	C.2.3.1	--	--	--
			02474	00004	----------	C.2.8.2	--	--	--
	Davis, Mark		00469	00001	----------	C.2.7	--	--	--
			00469	00002	----------	C.2.8	--	--	--
			00469	00003A	----------	C.2.4.3	--	--	--
			00469	00003B	----------	C.2.8.3	--	--	--
			00469	00005	----------	C.2.2	--	--	--
			00469	00008	----------	C.3.1.2	--	--	--
			00469	00009	----------	C.3.4.4	--	--	--
	Delwiche, Laurel A.		00495	00002	----------	C.2.3.3	--	--	--
	Dixon, Bill		02467	00001	----------	C.2.1.2	--	--	--
	Dixon, Bill	Department of Energy	02070	00001	----------	C.2.1.2	--	--	--
			02070	00002	----------	C.2.4.1	--	--	--
			02070	00003	----------	C.2.1.2	--	--	--
			02070	00005	----------	C.2.4.1	--	--	--
			02070	00006	----------	C.2.1.1	--	--	--
			02070	00007	----------	C.2.7	--	--	--
			02070	00010	----------	C.3.4.4	--	--	--
			02070	00013	----------	C.2.8.3	--	--	--
			02070	00030	----------	C.2.5.1	--	--	--
			02070	00040	----------	C.2.4.1	--	--	--
			02070	00041	----------	C.2.4.1	--	--	--
			02070	00042	----------	C.2.4.1	--	--	--
			02070	00043	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			02070	00044	----------	C.2.4.1	--	--	--
			02070	00045	----------	C.2.4.1	--	--	--
			02070	00046	----------	C.2.4.1	--	--	--
			02070	00047	----------	C.2.4.1	--	--	--
			02070	00048	----------	C.2.4.1	--	--	--
			02070	00049	----------	C.2.4.1	--	--	--
			02070	00050	----------	C.2.4.1	--	--	--
			02070	00051	----------	C.2.4.1	--	--	--
			02070	00052	----------	C.2.4.1	--	--	--
			02070	00054	----------	C.2.4.1	--	--	--
			02070	00055	----------	C.2.4.1	--	--	--
			02070	00056	----------	C.2.4.1	--	--	--
			02070	00060	----------	C.2.2.2	--	--	--
			02070	00062	----------	C.2.4.1	--	--	--
			02070	00064	----------	C.2.4.1	--	--	--
			02070	00073	----------	C.3.4.3	--	--	--
			02070	00074	----------	C.2.4.1	--	--	--
			02070	00075	----------	C.2.4.1	--	--	--
			02070	00076	----------	C.2.4.1	--	--	--
			02070	00077	----------	C.2.4.1	--	--	--
			02070	00078	----------	C.2.4.1	--	--	--
			02070	00079	----------	C.2.4.1	--	--	--
			02070	00080	----------	C.2.4.1	--	--	--
			02070	00081	----------	C.3.4.3	--	--	--
			02070	00082	----------	C.3.1.1	--	--	--
	Dobratz, Ruth Marie		02698	00001	----------	C.2.8.1	--	--	--
			02698	00002	----------	C.2.8.2	--	--	--
			02698	00003	----------	C.3.4.4	--	--	--
			02698	00004	----------	C.3.4.4	--	--	--
			02698	00005	----------	C.2.8.2	--	--	--
			02698	00006	----------	C.2.8.2	--	--	--
	Fawbush, Rep., Wayne		02444	00001	----------	C.2.3.1	--	--	--
			02444	00007	----------	C.3.4.4	--	--	--
	Frank, Lynn		02440	00003	----------	C.2.1.2	--	--	--
			02440	00004	----------	C.2.1.2	--	--	--
	Friedman, Sid		02483	00001	----------	C.3.4.4	--	--	--
			02483	00002	----------	C.3.4.4	--	--	--
			02483	00003	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			02483	00004	----------	C.3.1.1	--	--	--
			02483	00005	----------	C.2.3.1	--	--	--
			02483	00006	----------	C.2.1.1	--	--	--
			02483	00007	----------	C.2.3.1	--	--	--
			02483	00008	----------	C.2.4.1	--	--	--
			02483	00009	----------	C.2.4.1	--	--	--
			02483	00010	----------	C.2.4.1	--	--	--
	Frison, Theodore	Koinonia Ecumenical Community	01249	00001	----------	C.3.4.4	--	--	--
			01249	00002	----------	C.2.4.1	--	--	--
			01249	00003	----------	C.3.1.2	--	--	--
			01249	00004	----------	C.3.1.2	--	--	--
			01249	00005	----------	C.2.8.2	--	--	--
			01249	00006	----------	C.3.1.2	--	--	--
			01249	00007	----------	C.3.1.2	--	--	--
			01249	00008	----------	C.3.1.2	--	--	--
			01249	00009	----------	C.3.1.2	--	--	--
			01249	00010	----------	C.3.4.4	--	--	--
	Frison, Theodore		01361	00001	----------	C.3.4.4	--	--	--
			01361	00002	----------	C.2.4.1	--	--	--
			01361	00003	----------	C.3.1.2	--	--	--
			01361	00005	----------	C.3.1.2	--	--	--
			01361	00006	----------	C.2.1.2	--	--	--
			01361	00008	----------	C.3.1.2	--	--	--
	Fry, Peter F.		01202	00001	----------	C.3.4.4	--	--	--
			01202	00002	----------	C.3.1.2	--	--	--
			01202	00003	----------	C.2.4.1	--	--	--
			01202	00004	----------	C.2.3	--	--	--
	Gee, Sandra		02485	00002	----------	C.2.8.2	--	--	--
			02485	00004	----------	C.2.1.1	--	--	--
	Germond, Norma Jean		02490	00002	----------	C.2.1.2	--	--	--
			02490	00003	----------	C.2.1.1	--	--	--
			02490	00004	----------	C.2.1.1	--	--	--
			02490	00007	----------	C.2.4.1	--	--	--
			02490	00008	----------	C.2.4.1	--	--	--
	Germond, Norma Jean	Columbia River Task Force	02503	00002	----------	C.2.1.2	--	--	--
			02503	00003	----------	C.2.1.1	--	--	--
			02503	00004	----------	C.2.1.1	--	--	--
			02503	00007	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			02503	00008	----------	C.2.4.1	--	--	--
	Gilevich, Welsh, Shari, Manning		00619	00001	----------	C.3.1.2	--	--	--
			00619	00002	----------	C.3.1.2	--	--	--
			00619	00003	----------	C.2.3.1	--	--	--
			00619	00004	----------	C.2.3.3	--	--	--
			00619	00005	----------	C.2.1.2	--	--	--
			00619	00006	----------	C.2.4.1	--	--	--
			00619	00008	----------	C.2.8.3	--	--	--
			00619	00009	----------	C.2.3.3	--	--	--
	Goldberg, Marshall		02480	00001	----------	C.3.4.4	--	--	--
			02480	00002	----------	C.2.4.1	--	--	--
			02480	00006	----------	C.3.1.2	--	--	--
			02480	00007	----------	C.2.1.2	--	--	--
	Griffith, W. R.		01156	00001	----------	C.3.4.4	--	--	--
	Griffith, Nigel		02477	00001	----------	C.3.4.4	--	--	--
	Hampton, Stephanie		02470	00004	----------	C.2.4.1	--	--	--
			02470	00005	----------	C.3.1.2	--	--	--
			02470	00006	----------	C.2.1.2	--	--	--
	Hampton, Stephanie	Town of Hammond	00676	00001	----------	C.2.4.1	--	--	--
	Harris, Hope		00681	00002	----------	C.2.1.2	--	--	--
	Harris, Hope		02495	00003	----------	C.2.4.1	--	--	--
			02495	00006	----------	C.3.4.4	--	--	--
			02495	00007	----------	C.2.1.2	--	--	--
	Henningsgaard, Mayor Edith	Astoria City Council	02073	00001	----------	C.3.4.4	--	--	--
			02073	00002	----------	C.2.1.2	--	--	--
			02073	00003	----------	C.3.4.4	--	--	--
	Henry, David	WWSSG	01365	00001	----------	C.2.1.2	--	--	--
			01365	00002	----------	C.2.1.2	--	--	--
			01365	00003	----------	C.2.1.2	--	--	--
			01365	00004	----------	C.2.4.1	--	--	--
			01365	00005	----------	C.2.4.1	--	--	--
			01365	00006	----------	C.2.4.1	--	--	--
			01365	00007	----------	C.2.4.1	--	--	--
			01365	00008	----------	C.2.4.1	--	--	--
			01365	00009	----------	C.2.4.1	--	--	--
			01365	00010	----------	C.2.4.1	--	--	--
			01365	00011	----------	C.2.4.1	--	--	--
			01365	00012	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			01365	00013	----------	C.2.1.2	--	--	--
	Herdon/Hill, Co-chair, Ron/Alma	Rainbow Organizing Committee	00521	00001	----------	C.3.1.2	--	--	--
			00521	00002	----------	C.2.1.1	--	--	--
			00521	00003	----------	C.3.1.2	--	--	--
			00521	00004	----------	C.2.3.1	--	--	--
			00521	00007	----------	C.2.8.2	--	--	--
	Hidden, William		02456	00002	----------	C.3.4.4	--	--	--
			02456	00003	----------	C.2.1.1	--	--	--
	Hollis, Jack F.		00456	00001	----------	C.2.1.2	--	--	--
			00456	00002	----------	C.2.1.1	--	--	--
			00456	00003A	----------	C.2.4.1	--	--	--
			00456	00003B	----------	C.2.3.1	--	--	--
			00456	00004	----------	C.3.4.4	--	--	--
	Holmes, Jenny		01289	00001	----------	C.2.3.3	--	--	--
	Howell, Mary L.		01293	00001	----------	C.2.4.1	--	--	--
			01293	00002	----------	C.2.8.2	--	--	--
	Huette, Fred		02499	00001	----------	C.3.1.2	--	--	--
			02499	00002	----------	C.2.8.3	--	--	--
			02499	00003	----------	C.2.4.1	--	--	--
			02499	00006	----------	C.2.3.1	--	--	--
			02499	00007	----------	C.3.4.4	--	--	--
			02499	00008	----------	C.2.3.1	--	--	--
			02499	00009	----------	C.2.1.3	--	--	--
			02499	00010	----------	C.2.1.2	--	--	--
			02499	00011	----------	C.2.3.1	--	--	--
	Hughes, Jim	WWSSG	01364	00001	----------	C.2.1.2	--	--	--
			01364	00002	----------	C.2.1.2	--	--	--
			01364	00003	----------	C.2.1.2	--	--	--
			01364	00004	----------	C.2.1.2	--	--	--
			01364	00005	----------	C.3.1.2	--	--	--
			01364	00006	----------	C.2.1.2	--	--	--
	Jackson, Johnny		02460	00001	----------	C.3.4.4	--	--	--
			02460	00003	----------	C.3.1.2	--	--	--
	Jones, Rick & Kathy		01068	00001	----------	C.3.4.4	--	--	--
	Juelfs, Caerl Payne & Larry		01550	00001	----------	C.3.1.2	--	--	--
	Keller, Judith		01122	00001	----------	C.3.4.4	--	--	--
			01122	00002	----------	C.2.1.2	--	--	--
	Kirby, K. W.	Hood River County	01227	00001	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
	Kite, Sandra		00551	00003	----------	C.2.1.2	--	--	--
			00551	00004	----------	C.3.4.4	--	--	--
	Kleiner, Mary E.		00669	00001	----------	C.3.4.4	--	--	--
	Knuse, T. B.		01578	00002	----------	C.3.2	--	--	--
	Korb, Nancy		02443	00001	----------	C.2.3.3	--	--	--
			02443	00002	----------	C.2.1.2	--	--	--
			02443	00003	----------	C.3.1.2	--	--	--
			02443	00006	----------	C.2.1.2	--	--	--
			02443	00007	----------	C.2.3.1	--	--	--
			02443	00010	----------	C.2.4.1	--	--	--
			02443	00011	----------	C.3.4.4	--	--	--
	Lacourse, Victor		02449	00001	----------	C.8.2	C.2.3.1	--	--
			02449	00002	----------	C.2.4.1	--	--	--
			02449	00003	----------	C.2.1.2	--	--	--
			02449	00005	----------	C.2.1.2	--	--	--
			02449	00006	----------	C.2.1.1	--	--	--
	Lasley, Mark		01157	00003	----------	C.3.4.4	--	--	--
	LePage, Albert J.		00618	00001	----------	C.3.1.1	--	--	--
			00618	00002	----------	C.2.8	--	--	--
			00618	00003	----------	C.2.8	--	--	--
			00618	00005	----------	C.2.8.1	--	--	--
			00618	00008	----------	C.2.8	--	--	--
			00618	00010	----------	C.2.8	--	--	--
			00618	00011	----------	C.2.8	--	--	--
			00618	00012	----------	C.2.3.1	--	--	--
	Lieberman, Carol		02450	00001	----------	C.2.1.2	--	--	--
			02450	00002	----------	C.2.3.3	--	--	--
			02450	00003	----------	C.3.1.2	--	--	--
			02450	00004	----------	C.3.4.4	--	--	--
			02450	00005	----------	C.3.1.2	--	--	--
			02450	00006	----------	C.3.1.1	--	--	--
			02450	00007	----------	C.2.1.1	--	--	--
			02450	00011	----------	C.2.4.1	--	--	--
			02450	00012	----------	C.2.4.1	--	--	--
			02450	00013	----------	C.2.3.1	--	--	--
			02450	00014	----------	C.3.1.2	--	--	--
	Lindberg, Mike		02455	00001	----------	C.3.4.4	--	--	--
			02455	00002	----------	C.2.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			02455	00009	----------	C.2.1.1	--	--	--
			02455	00010	----------	C.2.1.2	--	--	--
	Lindberg, Mike	Office of Public Affairs	02618	00001	----------	C.3.4.4	--	--	--
			02618	00003	----------	C.2.1.2	--	--	--
			02618	00004	----------	C.2.2	--	--	--
			02618	00005	----------	C.3.4.4	--	--	--
			02618	00006	----------	C.2.8.2	--	--	--
	Lindsay, John	WWSSG	01362	00002	----------	C.2.1.2	--	--	--
			01362	00006	----------	C.2.6.1	C.7.4	--	--
			01362	00007	----------	C.2.1.1	--	--	--
	Lindstrom, Stephen R.	Port of Morrow	02079	00001	----------	C.3.1.2	C.6.4	--	--
			02079	00002	----------	C.2.4.1	--	--	--
			02079	00003	----------	C.4.2.1		--	--
	Long, Jim		02461	00001	----------	C.2.1.1	--	--	--
			02461	00002	----------	C.2.1.1	--	--	--
			02461	00003	----------	C.2.1.1	--	--	--
			02461	00004	----------	C.3.1.2	--	--	--
			02461	00005	----------	C.2.1	--	--	--
			02461	00006	----------	C.2.4.1	--	--	--
			02461	00007	----------	C.2.1.1	--	--	--
			02461	00010	----------	C.2.4.1	--	--	--
			02461	00011	----------	C.2.3.1	--	--	--
			02461	00012	----------	C.2.3.2	--	--	--
			02461	00013	----------	C.2.3.2	--	--	--
			02461	00014	----------	C.2.2	--	--	--
	Luzier, James		02466	00003	----------	C.3.4.4	--	--	--
	Maduro, Gina		02494	00001	----------	C.2.3.1	--	--	--
			02494	00002	----------	C.2.3.1	--	--	--
			02494	00003	----------	C.2.3.1	--	--	--
			02494	00004	----------	C.2.3.3	--	--	--
			02494	00005	----------	C.3.1.2	--	--	--
			02494	00006	----------	C.3.1.1	--	--	--
			02494	00007	----------	C.3.1.2	--	--	--
			02494	00008	----------	C.2.3.1	--	--	--
			02494	00009	----------	C.2.3.1	--	--	--
			02494	00010	----------	C.2.3.1	--	--	--
			02494	00011	----------	C.2.1.2	--	--	--
			02494	00013	----------	C.2.3.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			02494	00014	----------	C.2.3.1	--	--	--
			02494	00015	----------	C.3.4.4	--	--	--
	Marbet, Lloyd		02492	00002	----------	C.2.1.1	--	--	--
			02492	00004	----------	C.3.1.2	--	--	--
			02492	00005	----------	C.2.3.1	--	--	--
			02492	00006	----------	C.3.1.2	--	--	--
			02492	00007	----------	C.2.5.1	--	--	--
	Margolis, William		00479	00001	----------	C.2.1.1	--	--	--
	Marthaller, Karen & Don		01167	00001	----------	C.3.4.4	--	--	--
			01167	00003	----------	C.3.4.4	--	--	--
	Mathis, Faith		00299	00002	----------	C.3.1.2	--	--	--
	McLaughlin, Barbara		02482	00001	----------	C.3.4.4	--	--	--
			02482	00003	----------	C.3.1.2	--	--	--
			02482	00004	----------	C.2.4.1	--	--	--
			02482	00005	----------	C.2.1.2	--	--	--
			02482	00008	----------	C.2.3.3	--	--	--
	McManus, Jorge		02476	00001	----------	C.3.4.4	--	--	--
			02476	00003	----------	C.2.3.2	--	--	--
			02476	00007	----------	C.2.4.1	--	--	--
			02476	00008B	----------	C.2.2	--	--	--
	McManus, Mary		02487	00001	----------	C.3.4.4	--	--	--
			02487	00002	----------	C.2.8.1	--	--	--
			02487	00004	----------	C.2.4.1	--	--	--
			02487	00005	----------	C.2.4.1	--	--	--
	McVay, Merle Ann		01107	00001	----------	C.3.1.2	--	--	--
	Mead, Bill		02445	00001	----------	C.3.4.4	--	--	--
			02445	00002	----------	C.2.1.2	--	--	--
	Miller, Mindy		01553	00004	----------	C.2.4.1	--	--	--
	Miller, Caroline		02465	00001	----------	C.3.4.4	--	--	--
			02465	00002	----------	C.3.1.2	--	--	--
			02465	00003	----------	C.2.1.2	--	--	--
			02465	00004	----------	C.2.4.1	--	--	--
			02465	00005	----------	C.2.1.1	--	--	--
			02465	00006	----------	C.2.4.1	--	--	--
			02465	00007	----------	C.2.1.1	--	--	--
	Miller, Ron		02479	00001	----------	C.2.3.1	--	--	--
			02479	00002	----------	C.3.1.1	--	--	--
			02479	00003	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			02479	00004	----------	C.3.1.2	--	--	--
			02479	00005	----------	C.3.1.2	--	--	--
			02479	00008	----------	C.2.1.1	--	--	--
			02479	00009	----------	C.2.7	--	--	--
			02479	00010	----------	C.2.1.1	--	--	--
			02479	00011	----------	C.2.1.1	--	--	--
	Miller, Joseph		02488	00001	----------	C.3.4.4	--	--	--
			02488	00002	----------	C.2.1.2	--	--	--
			02488	00003	----------	C.3.1.2	--	--	--
			02488	00004	----------	C.3.4.4	--	--	--
	Milne, Thomas		02451	00001	----------	C.3.1.2	--	--	--
			02451	00002	----------	C.2.4.1	--	--	--
			02451	00004	----------	C.3.3	--	--	--
			02451	00005	----------	C.3.4.4	--	--	--
	Mix, Merryl		00611	00001	----------	C.3.4.4	--	--	--
	Mix, Merryl		00677	00001	----------	C.2.8.1	--	--	--
	Moore, Madeline		00234	00001	----------	C.3.4.4	--	--	--
	Muller, Kris		00626	00001	----------	C.2.4.1	--	--	--
			00626	00002	----------	C.2.5.2	--	--	--
			00626	00003	----------	C.2.3.1	--	--	--
			00626	00004	----------	C.2.5.1	--	--	--
			00626	00005	----------	C.2.1.1	--	--	--
	Muller, Chris		02283	00001	----------	C.3.1.2	--	--	--
			02283	00003	----------	C.2.4.1	--	--	--
			02283	00004	----------	C.2.6.1	--	--	--
	Nicholas, Mrs. Edwin L.		02619	00002	----------	C.2.4.1	--	--	--
			02619	00003	----------	C.3.1.2	--	--	--
			02619	00004	----------	C.2.3.1	--	--	--
			02619	00005	----------	C.3.4.4	--	--	--
			02619	00007	----------	C.2.4.1	--	--	--
			02619	00010	----------	C.2.3.2	--	--	--
			02619	00011	----------	C.3.4.4	--	--	--
	Nicholson, Jenny		00463	00001	----------	C.2.1.1	--	--	--
			00463	00002	----------	C.3.4.4	--	--	--
			00463	00005	----------	C.3.4.4	--	--	--
	Nitsos, M.		01584	00001	----------	C.3.4.4	--	--	--
	Pace, Evalyne		02464	00001	----------	C.2.1.1	--	--	--
			02464	00002A	----------	C.2.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			02464	00004	----------	C.3.4.2.1	--	--	--
			02464	00005	----------	C.3.1.2	--	--	--
			02464	00006	----------	C.2.3.1	--	--	--
	Palmer, Leonard		02468	00001	----------	C.3.1.2	--	--	--
			02468	00002	----------	C.3.4.4	--	--	--
			02468	00003	----------	C.3.1.2	--	--	--
			02468	00007	----------	C.3.1.2	--	--	--
			02468	00008	----------	C.2.1.2	--	--	--
	Patawa, Elwood	Umatilla Indian Reservation	01494	00001	----------	C.2.1.2	--	--	--
			01494	00007	----------	C.2.6.1	--	--	--
			01494	00008	----------	C.2.5.1	--	--	--
			01494	00009	----------	C.3.1.2	--	--	--
			01494	00010	----------	C.2.5.2	--	--	--
			01494	00011	----------	C.2.7	--	--	--
			01494	00012	----------	C.3.1.2	--	--	--
			01494	00013	----------	C.2.7	--	--	--
			01494	00014	----------	C.2.7	--	--	--
			01494	00015	----------	C.2.4.1	--	--	--
			01494	00016	----------	C.3.1.2	--	--	--
			01494	00017	----------	C.3.4.3	--	--	--
			01494	00018	----------	C.2.5.1	2.5.6	C.2.6.1	--
			01494	00019	----------	C.2.1.2	--	--	--
			01494	00080	----------	C.2.6.1	--	--	--
			01494	00106	----------	C.3.4.4	--	--	--
			01494	00107	----------	C.3.4.1	--	--	--
			01494	00108	----------	C.3.4.1	--	--	--
			01494	00109	----------	C.3.4.1	--	--	--
			01494	00110	----------	C.3.4.1	--	--	--
			01494	00111	----------	C.3.4.1	--	--	--
			01494	00112	----------	C.7.3	--	--	--
			01494	00113	----------	C.2.4.1	--	--	--
			01494	00114	----------	C.2.4.1	--	--	--
			01494	00115	----------	C.7.3	--	--	--
			01494	00116	----------	C.3.4.3	--	--	--
	Peck, John		00531	00001	----------	C.3.1.2	--	--	--
			00531	00002	----------	C.3.1.1	--	--	--
			00531	00003	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			00531	00004	----------	C.2.3.1	--	--	--
			00531	00007	----------	C.2.4.1	--	--	--
			00531	00011	----------	C.2.1.1	--	--	--
			00531	00012	----------	C.2.1.2	--	--	--
	Petersen, Gary & Family		01302	00001	----------	C.3.4.4	--	--	--
	Peterson, Nancy	House of Representatives	01352	00001	----------	C.3.4.4	--	--	--
			01352	00002	----------	C.3.4.4	--	--	--
			01352	00006	----------	C.2.1.2	--	--	--
	Phelps, Anne		02489	00003	----------	C.2.1.1	--	--	--
	Powell, Laura		02472	00001	----------	C.3.4.4	--	--	--
			02472	00002	----------	C.3.1.2	--	--	--
			02472	00003	----------	C.2.1.2	--	--	--
			02472	00004	----------	C.3.1.2	--	--	--
			02472	00005	----------	C.2.5.1	--	--	--
			02472	00006	----------	C.3.4.4	--	--	--
	Quinlan, Gordon		01291	00001	----------	C.3.4.4	--	--	--
			01291	00002	----------	C.3.1.2	--	--	--
	Rathbun, R. Keaney & Dr. Susan		00500	00003	----------	C.2.1.2	--	--	--
			00500	00004	----------	C.2.8.1	--	--	--
	Redfern, Roger		02453	00001	----------	C.2.5.1	--	--	--
			02453	00002	----------	C.2.3.3	--	--	--
			02453	00003	----------	C.3.1.2	--	--	--
			02453	00004	----------	C.3.4.1	--	--	--
			02453	00005	----------	C.2.3.3	--	--	--
			02453	00006	----------	C.2.3.1	--	--	--
			02453	00009	----------	C.2.7	--	--	--
	Rhoads, Laurel		00262	00002	----------	C.3.1.2	--	--	--
	Roy, Jeanne		02478	00001	----------	C.2.2	--	--	--
			02478	00002	----------	C.3.1.2	--	--	--
			02478	00003A	----------	C.2.8.3	--	--	--
	Ruben, Barbara		00449	00001	----------	C.3.4.4	--	--	--
	Saltzman, Dan		02484	00001	----------	C.3.1.2	--	--	--
			02484	00002	----------	C.2.3.1	--	--	--
			02484	00003	----------	C.3.4.4	C.3.1.2	--	--
			02484	00003A	----------	C.3.4.4	--	--	--
			02484	00003B	----------	C.3.1.2	--	--	--
			02484	00004	----------	C.2.1.1	--	--	--
	Schade, Dr. Charles P.	Multnomah County Oregon	00367	00002	----------	C.7.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
			00367	00004	----------	C.7.3	--	--	--
	Schectel, Tim		02481	00001	----------	C.3.4.4	--	--	--
	Schietinger, Chuck		02500	00000	----------	C.3.4.4	--	--	--
	Silver, Erika		02463	00001	----------	C.2.4.1	--	--	--
			02463	00002	----------	C.3.4.4	--	--	--
	Sleeman, Larry & Lori		00501	00002	----------	C.2.4.1	--	--	--
	Smith, Julie		01219	00001	----------	C.3.1.2	--	--	--
			01219	00002	----------	C.2.4.1	--	--	--
			01219	00003	----------	C.2.3	--	--	--
			01219	00004	----------	C.2.3.3	--	--	--
			01219	00005	----------	C.2.3	--	--	--
			01219	00006	----------	C.3.1.2	--	--	--
			01219	00007	----------	C.2.3	--	--	--
	Spillman, James		00671	00001	----------	C.2.1.1	--	--	--
			00671	00008	----------	C.2.3.1	--	--	--
	Stachon, Eric		02448	00001	----------	C.2.1.2	--	--	--
			02448	00002	----------	C.3.4.4	--	--	--
			02448	00003	----------	C.2.3.1	--	--	--
	Stout, Myrna Duffy		01591	00001	----------	C.3.4.4	--	--	--
			01591	00002	----------	C.2.1.1	--	--	--
	Strong, Bruce		00218	00003	----------	C.3.4.4	--	--	--
	Tucker, Tom		02458	00001	----------	C.2.5.1	--	--	--
			02458	00002	----------	C.2.5.2	--	--	--
			02458	00003	----------	C.2.5.2	--	--	--
			02458	00004	----------	C.2.6.1	--	--	--
			02458	00005	----------	C.2.5.1	--	--	--
			02458	00006	----------	C.2.4.1	--	--	--
			02458	00007	----------	C.2.8.2	--	--	--
	Van Cise, Glen		01165	00001	----------	C.3.4.4	--	--	--
			01165	00003	----------	C.2.3	--	--	--
	VanCise, Debra J.		00436	00001	----------	C.2.8	--	--	--
	Vivian, Pat		01593	00001	----------	C.2.1.1	--	--	--
			01593	00002	----------	C.3.1.2	--	--	--
			01593	00003	----------	C.2.3.1	--	--	--
			01593	00004	----------	C.3.4.4	--	--	--
	Vogt, Dr. Thomas M.		00484	00002	----------	C.2.1.2	--	--	--
	Wallace, Jerry		02496	00002	----------	C.5.3	C.3.4	--	--
			02496	00005	----------	C.2.3.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Oregon (continued)									
	Wapato, Tim		02447	00003	----------	C.2.1.1	--	--	--
	Webster, T. R.	Dept. of Health & Human Services	01232	00001	----------	C.3.1.2	--	--	--
			01232	00002	----------	C.2.4.1	C.7.3	--	--
	Weinmann, Sheila		02454	00002	----------	C.2.1.2	--	--	--
			02454	00003	----------	C.2.1.2	--	--	--
			02454	00004	----------	C.3.4.4	--	--	--
			02454	00006	----------	C.2.4.1	--	--	--
			02454	00007	----------	C.3.4.4	--	--	--
			02454	00008	----------	C.3.4.4	--	--	--
			02454	00009	----------	C.3.1.2	--	--	--
	Westervelt, Susan		01108	00001	----------	C.3.4.4	--	--	--
			01108	00002	----------	C.2.4.1	--	--	--
			01108	00006	----------	C.3.4.4	--	--	--
	Whittwer, Paulette		02471	00001	----------	C.3.1.2	--	--	--
			02471	00002	----------	C.2.8.1	--	--	--
			02471	00003	----------	C.3.1.2	--	--	--
			02471	00004	----------	C.3.1.2	--	--	--
	Williams, Hal & Cathy		00610	00001	----------	C.3.1.2	--	--	--
			00610	00002	DC	C.7.2	--	--	--
			00610	00003	DC	C.7.2	--	--	--
			00610	00004	----------	C.3.1.2	--	--	--
	Williams, Reece		02486	00002	----------	C.2.8.3	--	--	--
			02486	00003	----------	C.2.3.1	--	--	--
	Willits, Howard D.		02452	00001	----------	C.3.4.4	--	--	--
	Wineland, Mrs. C. E.		00202	00001	----------	C.3.1.2	--	--	--
			00202	00002	----------	C.3.1.2	--	--	--
			00202	00003	----------	C.3.4.4	--	--	--
	Wisecarver, Beth		01575	00001	----------	C.3.1.2	--	--	--
	Yarbrough, Carol A.		01173	00001	----------	C.3.4.4	--	--	--
Pennsylvania									
	Delgado, Linda		00468	00001	DC	C.7.2	--	--	--
			00468	00002	DC	C.7.4	--	--	--
			00468	00003	DC	C.7.2	--	--	--
			00468	00004	DC	C.7.2	--	--	--
	Good, Milton	Z & G Rubber Horse Shoes	00001	00001	----------	C.2.8.2	--	--	--
	Morgan, Robert E.		00401	00001	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Pennsylvania (continued)									
			00401	00002	DC	C.7.2.5	--	--	--
			00401	00003	DC	C.7.2	--	--	--
			00401	00004	DC	C.7.4	--	--	--
			00401	00005	DC	C.7.2	--	--	--
			00401	00006	DC	C.7.2	--	--	--
			00401	00007	----------	C.3.4.4	--	--	--
	Ress, Regina		02711	00001	DS	C.7.4.2	C.7.2.1	--	--
			02711	00002	----------	C.5.1	--	--	--
	Schmotzer, Michael & Constance		00653	00001	----------	C.3.4.4	--	--	--
			00653	00002	DC	C.7.2.4	C.7.2.5	--	--
	Young, Alice C.		00203	00001	----------	C.3.4.4	--	--	--
			00203	00002	DC	C.7.2	--	--	--
			00203	00003	----------	C.3.1.2	--	--	--
	Young, Hugh		01072	00001	----------	C.3.1.2	--	--	--
			01072	00002	DC	C.7.2.4	--	--	--
South Carolina									
	Taylor, Reid		00091	00001	----------	C.3.4.4	--	--	--
			00091	00002	DC	C.7.2	--	--	--
			00091	00003	DC	C.7.4	--	--	--
Tennessee									
	Cohn, Waldo E.		01286	00001	DC	C.7.2	--	--	--
	Crass, Ted		00182	00001	----------	C.3.1.2	--	--	--
			00182	00002	DC	C.7.2	--	--	--
			00182	00003	DC	C.7.2.5	--	--	--
			00182	00004	DC	C.7.2	--	--	--
			00182	00005	DC	C.7.4	--	--	--
	Edwards, Sandra	TN Citizens for Wilderness Plan	00387	00001	DC	C.7.2.4	--	--	--
			00387	00002	DC	C.7.4	--	--	--
	Hartman, Doris M.		00135	00001	DC	C.7.2	--	--	--
			00135	00002	----------	C.3.1.2	--	--	--
	Honicker, Dolph		01869	00001	----------	C.2.8.1	--	--	--
	Murray, Stanley A.	S. Appalachian Highlands Cnsv.	00471	00001	DC	C.7.2	--	--	--
	Selby, Paul B.		00429	00001	DC	C.3.1.3	--	--	--
	White, Michael E.		00071	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Tennessee (continued)									
			00071	00002	DC	C.7.2	--	--	--
			00071	00003	DC	C.7.2	--	--	--
Texas									
	Adibi, Alma		00378	00001	DS	C.7.4	--	--	--
			00378	00002	----------	C.3.4.4	--	--	--
			00378	00003	DS	C.5.1	--	--	--
	Anderson, Gary		00699	00001	DS	C.7.4.2	--	--	--
			00699	00003	----------	C.3.4.4	--	--	--
	Anonymous		00044	00001	----------	C.2.8.1	--	--	--
			00206	00001	----------	C.3.1.2	--	--	--
			00206	00002	DS	C.7.4	--	--	--
			00206	00003A	DS	C.7.4	--	--	--
			00206	00003B	DS	C.7.2	--	--	--
			00206	00004	----------	C.3.1.2	--	--	--
		City of Vega	01271	00001	----------	C.3.4.4	--	--	--
			01271	00002	----------	C.2.1.5	--	--	--
			01271	00003	DS	C.7.4.3	--	--	--
			01271	00004	DS	C.4.1.2.3	--	--	--
			01271	00005	DS	C.4.1.2.3	--	--	--
			01271	00006	DS	C.7.4.3	--	--	--
			01271	00007	DS	C.7.4.3	--	--	--
			01271	00008	DS	C.4.1.3.1	--	--	--
			01271	00009	DS	C.4.1.4	--	--	--
			01271	00010	DS	C.4.2.2	C.7.4.3	--	--
			01271	00011	DS	C.4.1.5.3	--	--	--
			01271	00012	DS	C.4.1.2.3	--	--	--
			01271	00013	DS	C.4.1.2.3	C.7.4.3	--	--
			01271	00014	DS	C.4.1.2.3	C.7.4.3	--	--
			01271	00015	DS	C.7.4.3	C.7.4.5	--	--
			01271	00016	DS	C.7.4.3	--	--	--
			01271	00017	DS	C.7.2.8	--	--	--
			01271	00018	DS	C.4.1.5.3	--	--	--
			01271	00019	DS	C.4.1.5.3	--	--	--
			01271	00020	DS	C.7.4.3	--	--	--
			01271	00021	DS	C.7.4.3	--	--	--
			01271	00022	DS	C.6.1	C.3.2	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01271	00023	DS	C.6.1	--	--	--
			01271	00024	DS	C.6.1	--	--	--
			01271	00025	DS	C.7.4.1	--	--	--
			01271	00026	DS	C.7.4.1	--	--	--
			01271	00027	DS	C.7.4.1	--	--	--
			01271	00028	DS	C.7.4.1	--	--	--
			01271	00029	DS	C.7.4.1	C.4.1.5.1	--	--
			01271	00030	DS	C.4.1.5.1	--	--	--
			01271	00031	DS	C.7.4.4	--	--	--
			01271	00032	DS	C.7.1.2	--	--	--
			01271	00033	DS	C.4.1.3.1	--	--	--
			01271	00034	DS	C.4.1.5.3	--	--	--
			01271	00035	DS	C.7.4	--	--	--
			01271	00036	DS	C.7.4	--	--	--
			01271	00037	DS	C.7.4.2	--	--	--
			01271	00038	DS	C.5.1	C.3.2	--	--
			01271	00039	DS	C.4.2.2	--	--	--
			01271	00040	DS	C.7.4	--	--	--
			01271	00041	DS	C.7.4.4	--	--	--
			01271	00042	DS	C.7.1.1	--	--	--
			01271	00043	DS	C.7.1.2	--	--	--
			01271	00044	DS	C.6.5	--	--	--
			01271	00045	----------	C.2.4.1	--	--	--
			01271	00046	DS	C.7.3	--	--	--
			01271	00047	DS	C.7.4.3	--	--	--
			01271	00048	DS	C.7.4.3	--	--	--
			01271	00049	DS	C.7.4.3	--	--	--
			01271	00050	DS	C.7.4.2	--	--	--
			01271	00051	----------	C.2.1.1	--	--	--
	Anonymous		02147	00001	DS	C.4.1.2.2	--	--	--
			02147	00002	DS	C.4.1.2.2	--	--	--
			02147	00003	DS	C.4.1.2.2	C.4.1.3.1	--	--
			02147	00004	DS	C.7.4.3	--	--	--
			02147	00005	DS	C.7.4.3	--	--	--
			02147	00006	DS	C.4.1.5.3	--	--	--
			02147	00007	DS	C.7.4.3	--	--	--
			02147	00008	DS	C.7.4.5	--	--	--
			02147	00009	DS	C.7.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			02147	00010	DS	C.7.2.8	--	--	--
			02147	00011	DS	C.4.1.5.3	--	--	--
			02147	00012	DS	C.7.4.5	--	--	--
			02147	00013	DS	C.6.1	--	--	--
			02147	00014	DS	C.7.4.1	--	--	--
			02147	00015	DS	C.7.4.1	--	--	--
			02147	00016	DS	C.7.4.4	--	--	--
			02147	00017	DS	C.7.1.2	--	--	--
			02147	00018	DS	C.4.1.3.1	--	--	--
			02147	00019	DS	C.4.1.5.3	--	--	--
			02147	00020	DS	C.7.4.5	--	--	--
			02147	00021	DS	C.7.4	--	--	--
			02147	00022	DS	C.4.2.2	--	--	--
			02147	00023	DS	C.7.1.2	--	--	--
			02147	00024	DS	C.7.2	--	--	--
			02147	00025	DS	C.6.5	--	--	--
			02147	00026	DS	C.6.5	--	--	--
			02147	00027	DS	C.7.4.4	--	--	--
			02147	00028	DS	C.7.4.3	--	--	--
			02147	00029	DS	C.7.3	--	--	--
			02147	00030	DS	C.7.4.5	--	--	--
		High Plains Underground Water	02139	00001	DS	C.7.1.1.8	C.7.2.8	--	--
			02139	00002	DS	C.4.2.2	--	--	--
			02139	00003	DS	C.4.3	--	--	--
			02139	00004	DS	C.4.3	--	--	--
			02139	00005	DS	C.4.1.2.2	--	--	--
			02139	00006	DS	C.7.1.1.8	--	--	--
			02139	00007	DS	C.7.2.1	C.7.2.8	--	--
			02139	00008	DS	C.4.3	--	--	--
			02139	00009	DS	C.4.1.2.2	--	--	--
			02139	00010	DS	C.4.1.2.3	--	--	--
			02139	00011	----------	C.2.3.1	--	--	--
	Anonymous		02140	00001	----------	C.3.1.2	--	--	--
			02140	00002	----------	C.3.1.2	--	--	--
			02140	00003	----------	C.2.3.2	--	--	--
			02140	00004	----------	C.2.6	--	--	--
			02140	00005	DS	C.3.3	--	--	--
			02140	00006	DS	C.4.1.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			02140	00007	DS	C.4.1.2.2	--	--	--
			02140	00008	DS	C.4.1.2.2	--	--	--
			02140	00009	DS	C.4.1.2.2	--	--	--
			02140	00010	DS	C.4.1.2.2	--	--	--
			02140	00011	DS	C.4.1.2.2	--	--	--
			02140	00012	DS	C.4.1.2.2	--	--	--
			02140	00013	DS	C.4.1.2.2	--	--	--
			02140	00014	DS	C.7.2.1	C.7.2.8	--	--
			02140	00015	DS	C.4.3	--	--	--
			02140	00016	DS	C.4.1.2.2	--	--	--
			02140	00017	DS	C.4.1.2.2	--	--	--
			02140	00018	DS	C.4.1.2.2	--	--	--
			02140	00019	DS	C.4.3	--	--	--
			02140	00020	DS	C.7.4.2	--	--	--
			02140	00021	DS	C.7.4.2	--	--	--
			02140	00022	DS	C.7.2	--	--	--
			02140	00023	----------	C.2.7	--	--	--
			02140	00024	----------	C.2.1.1	--	--	--
			02140	00025	----------	C.2.4.3	--	--	--
			02140	00026	----------	C.2.1.1	--	--	--
		Swisher Cnty. Commiss. Court	02166	00001	DS	C.7.4	C.7.3	C.5.1	--
		Tulia Wheat Growers, Inc.	02135	00001	----------	C.3.4.4	--	--	--
	Armitage, Mrs. R. A.		02164	00001	DS	C.7.4.3	--	--	--
			02164	00002	----------	C.3.4.4	--	--	--
			02164	00003	DS	C.7.1.2	C.7.4	--	--
			02164	00004	DS	C.7.1.1.8	C.7.2.8	--	--
			02164	00005	DS	C.4.3	C.7.2.1	--	--
			02164	00006	DS	C.7.4.2	--	--	--
			02164	00007	DS	C.7.4.2	--	--	--
			02164	00008	DS	C.7.1.1	--	--	--
			02164	00009	----------	C.2.5.2	--	--	--
	Auckerman, Rick		00842	00001	DS	C.4.1.5.2	--	--	--
			00842	00002	DS	C.7.4.2	--	--	--
			00842	00003	DS	C.4.1.5.2	C.7.4.2	--	--
			00842	00004	DS	C.4.1.5.2	C.7.4.2	--	--
	Auckerman, Georgia		00843	00001	----------	C.2.7	--	--	--
			00843	00002	DS	C.7.3	--	--	--
			00843	00003	----------	C.3.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00843	00004	----------	C.3.1.2	--	--	--
			00843	00005	----------	C.3.1.2	--	--	--
			00843	00006	----------	C.3.1.2	--	--	--
			00843	00007	----------	C.3.1.2	--	--	--
			00843	00008	----------	C.3.1.2	--	--	--
			00843	00009	----------	C.2.1.1	--	--	--
Bair, Nova			00865	00001	DS	C.5.11	--	--	--
			00865	00002	----------	C.3.1.2	--	--	--
			00865	00003	DS	C.7.2.7	--	--	--
Bair, Mrs. Nova S.			02159	00001	----------	C.3.1.2	--	--	--
			02159	00002	DS	C.7.2.8	--	--	--
			02159	00003	DS	C.7.2.8	--	--	--
			02159	00004	DS	C.7.4.2	--	--	--
			02159	00005	DS	C.7.2.1	--	--	--
Barber, Gene R.		Merriman & Barber	00508	00001	DS	C.7.1.2	--	--	--
			00508	00002	DS	C.7.1.2	--	--	--
			00508	00003	DS	C.4.1.5	--	--	--
			00508	00004	DS	C.7.1.2	C.7.4.2	--	--
			00508	00005	DS	C.7.1.2	C.4.1.5.1	C.7.4.1	--
			00508	00006	DS	C.4.1.5	C.7.4.5	C.7.1.2	--
			00508	00007	DS	C.4.1.5	C.7.4.5	C.7.1.2	--
			00508	00008	DS	C.4.1.5	C.7.1.2	C.7.4.3	--
			00508	00009	DS	C.4.1.5	--	--	--
			00508	00010	DS	C.4.1.5	C.7.1.2	--	--
Barber, P.E., Gene R.			02086	00001	DS	C.7.1.2	C.7.4.1	--	--
			02086	00002	DS	C.7.1.2	--	--	--
			02086	00003	DS	C.7.1.2	--	--	--
			02086	00004	DS	C.7.3	--	--	--
			02086	00005	DS	C.7.4.3	C.7.1.2	--	--
			02086	00006	DS	C.7.1.2	--	--	--
Barnard, Charlene			00875	00001	DS	C.7.2.1	--	--	--
			00875	00002	----------	C.2.8.2	--	--	--
			00875	00003	----------	C.2.1.2	--	--	--
Barnes, Debbie			00715	00002	DS	C.6.5	--	--	--
			00715	00004	----------	C.2.7	--	--	--
			00715	00005	----------	C.3.4.4	--	--	--
Beck, Malcolm		Garden-Ville Fertilizer Co.	02708	00001	----------	C.3.4.4	--	--	--
			02708	00002	----------	C.2.5.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
	Blakely, Lisa		00848	00001	----------	C.2.1.1	--	--	--
			00848	00002	----------	C.2.7	--	--	--
			00848	00003	----------	C.2.7	--	--	--
			00848	00004	----------	C.3.4.4	--	--	--
			00848	00005	DS	C.4.2.2	--	--	--
			00848	00006	DS	C.4.2.2	C.5.3	--	--
			00848	00007	DS	C.5.1	--	--	--
			00848	00008	----------	C.2.1.5	--	--	--
			00848	00009	DS	C.7.4.2	--	--	--
			00848	00010	DS	C.4.3	--	--	--
			00848	00011	----------	C.2.1.2	--	--	--
			00848	00012	DS	C.6.5	--	--	--
	Bledsoe, Jolene		00177	00001	DS	C.7.4	--	--	--
			00177	00002	DS	C.7.4	--	--	--
			00177	00003	----------	C.3.4.4	--	--	--
			00177	00004	----------	C.2.4.1	--	--	--
	Bledsoe, Jolene		02165	00001	----------	C.3.1.2	--	--	--
			02165	00002	----------	C.2.8.3	--	--	--
			02165	00003	----------	C.2.4.1	--	--	--
	Boatwright, Kenneth	TX Dept. of Agriculture	01383	00001	DS	C.4.1.5.2	--	--	--
			01383	00002	DS	C.4.1.5.2	--	--	--
			01383	00003	DS	C.7.4.2	--	--	--
			01383	00004	DS	C.7.4.2	--	--	--
			01383	00005	DS	C.7.4.2	--	--	--
			01383	00006	DS	C.7.4.2	--	--	--
			01383	00007	DS	C.7.4.2	--	--	--
			01383	00008	DS	C.7.4.2	--	--	--
			01383	00009	DS	C.4.1.5.2	--	--	--
			01383	00010	DS	C.7.4.2	--	--	--
			01383	00011	DS	C.4.1.5	--	--	--
			01383	00012	DS	C.7.4	--	--	--
			01383	00013A	DS	C.7.1.2	--	--	--
			01383	00013B	DS	C.7.4	--	--	--
			01383	00014	DS	C.7.4.2	--	--	--
			01383	00015	DS	C.7.4.2	--	--	--
			01383	00016A	DS	C.6.5	--	--	--
			01383	00016B	DS	C.5.1	--	--	--
			01383	00017	DS	C.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01383	00018	DS	C.7.3	--	--	--
			01383	00019	DS	C.7.4.2	--	--	--
			01383	00020	DS	C.7.4.2	--	--	--
			01383	00021	DS	C.7.4.2	--	--	--
			01383	00022	DS	C.7.4.2	--	--	--
			01383	00023	DS	C.4.1.5.2	--	--	--
			01383	00024	DS	C.7.4.2	--	--	--
			01383	00025	DS	C.7.4.2	--	--	--
			01383	00026	DS	C.7.4.2	C.2.1.5	--	--
			01383	00027	DS	C.7.4	--	--	--
			01383	00028	----------	C.2.7	--	--	--
	Borchardt, Brian		00697	00001	DS	C.7.2.1	--	--	--
			00697	00002	DS	C.7.4.2	--	--	--
			00697	00003	DS	C.7.4.2	--	--	--
			00697	00004	DS	C.7.2.8	C.7.2.1	--	--
			00697	00005	DS	C.7.4.4	--	--	--
	Borchardt, Mona		00705	00001	----------	C.3.4.4	--	--	--
			00705	00002	DS	C.7.4.2	--	--	--
			00705	00003	DS	C.7.4.2	--	--	--
			00705	00004	DS	C.7.4.5	--	--	--
			00705	00005	DS	C.7.2	--	--	--
			00705	00006	DS	C.6.5	C.5.11	C.7.3	--
			00705	00007	DS	C.7.2	--	--	--
			00705	00008	----------	C.3.4.4	--	--	--
	Borchardt, Brian		02129	00001	DS	C.7.2.1	--	--	--
			02129	00002	DS	C.7.4.2	--	--	--
			02129	00003	DS	C.7.4.2	--	--	--
			02129	00004	DS	C.7.2.8	C.7.2.1	--	--
			02129	00005	DS	C.7.4.4	--	--	--
	Borchardt, Mona		02131	00001	----------	C.3.4.4	--	--	--
			02131	00002	DS	C.7.4.2	--	--	--
			02131	00003	DS	C.7.4.2	--	--	--
			02131	00004	DS	--	C.7.4.5	--	--
			02131	00005	DS	C.7.2	C.7.1	--	--
			02131	00006	DS	C.6.5	C.5.11	C.7.3	--
			02131	00007	----------	C.3.4.4	--	--	--
			02131	00008	DS	C.7.2	--	--	--
	Boulter, Beau		00689	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00689	00002	----------	C.3.4.4	--	--	--
			00689	00003	----------	C.2.1.1	--	--	--
			00689	00004	----------	C.3.1.2	--	--	--
			00689	00005	----------	C.2.8.2	--	--	--
			00689	00006	----------	C.2.8.2	--	--	--
			00689	00007	----------	C.3.4.4	--	--	--
			00689	00008	----------	C.2.1.2	--	--	--
	Boulter, Beau	Texas Representative	02124	00001	----------	C.2.1.2	--	--	--
			02124	00002	----------	C.3.4	--	--	--
			02124	00003	----------	C.2.8.2	--	--	--
			02124	00004	----------	C.2.8.2	--	--	--
			02124	00005	----------	C.2.8.2	--	--	--
			02124	00006	----------	C.2.1.2	--	--	--
	Bright, Eunice		00708	00001	----------	C.3.1.2	--	--	--
			00708	00002	----------	C.3.1.1	--	--	--
			00708	00003	----------	C.3.3	--	--	--
			00708	00005	----------	C.7.3	--	--	--
	Bright, LuLu Marjorie		00710	00001	DS	C.7.1.1.1	C.7.2.1	C.4.3	--
			00710	00002	DS	C.5.7	--	--	--
			00710	00003	----------	C.2.7	--	--	--
			00710	00004	DS	C.7.4.2	--	--	--
	Briscoe, Greg		00895	00001	----------	C.2.7	--	--	--
			00895	00002	DS	C.4.1.1.1	--	--	--
			00895	00003	DS	C.5.7	--	--	--
			00895	00004	DS	C.7.4	--	--	--
			00895	00005	----------	C.2.8.2	--	--	--
			00895	00006	----------	C.2.3.2	--	--	--
			00895	00007	----------	C.2.8.1	--	--	--
			00895	00008	DS	C.7.2.8	--	--	--
			00895	00009	----------	C.3.2	--	--	--
	Brody, Julie		00836	00001	DS	C.7.4.2	--	--	--
			00836	00002	DS	C.4.1.5.2	--	--	--
			00836	00003	DS	C.7.4.2	--	--	--
			00836	00004	DS	C.7.4.2	--	--	--
			00836	00005	DS	C.7.4.2	--	--	--
			00836	00006	DS	C.7.4.2	--	--	--
			00836	00007	----------	C.2.3.1	--	--	--
	Brody, Julia	TX Dept. of Agriculture	01384	00001	DS	C.7.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01384	00002	DS	C.4.1.5.2	--	--	--
			01384	00003	----------	C.3.4.4	--	--	--
			01384	00004	DS	C.7.4	--	--	--
			01384	00005	DS	C.7.4.2	--	--	--
			01384	00006	DS	C.6.5	C.7.2	--	--
			01384	00007	----------	C.2.1.1	--	--	--
			01384	00008	----------	C.2.7	--	--	--
			01384	00009	DS	C.7.4	--	--	--
			01384	00010	DS	C.7.4	C.6.5	--	--
			01384	00011	DS	C.7.4	--	--	--
			01384	00012	DS	C.7.4	--	--	--
	Brody, Julie	Texas Department of Agriculture	02138	00001	DS	C.7.4	--	--	--
			02138	00002	DS	C.4.1.5.2	--	--	--
			02138	00003	DS	C.7.4.2	--	--	--
			02138	00004	DS	C.7.4.2	--	--	--
			02138	00005	DS	C.7.4.2	--	--	--
			02138	00006	DS	C.7.4.2	--	--	--
			02138	00007	----------	C.2.8.2	--	--	--
	Byrd, Wylie		00706	00001	----------	C.3.4.4	--	--	--
	Chedester, Barbara		00029	00001	----------	C.3.4.4	--	--	--
	Claire, Clendon B.		00376	00001	DS	C.7.4	--	--	--
			00376	00002	----------	C.3.4.4	--	--	--
			00376	00003	DS	C.5.1	--	--	--
	Coleman, Jean		00375	00001	DS	C.7.4	--	--	--
			00375	00002	----------	C.3.4.4	--	--	--
			00375	00003	DS	C.5.1	--	--	--
	Combest, Larry		00835	00001	DS	C.3.1.3	--	--	--
			00835	00002	----------	C.3.1.2	--	--	--
			00835	00003	DS	C.7.4.2	--	--	--
			00835	00004	DS	C.7.4.2	--	--	--
			00835	00005	DS	C.7.4.2	C.7.4.4	--	--
			00835	00006	----------	C.3.1.2	--	--	--
	Combest, Larry		02137	00001	DS	C.7.2.8	C.3.1.3	--	--
			02137	00002	----------	C.3.1.2	--	--	--
			02137	00003	DS	C.7.4.2	--	--	--
			02137	00004	DS	C.7.4.2	--	--	--
			02137	00005	DS	C.7.4.2	C.7.4.4	--	--
	Cominos, Nicholas		00892	00001	----------	C.2.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00892	00002	----------	C.2.8.1	--	--	--
			00892	00003	----------	C.2.8.1	--	--	--
	Cook, Joanne		00847	00001	----------	C.3.1.2	--	--	--
			00847	00002	DS	C.5.2	--	--	--
			00847	00003	DS	C.7.1.1.8	--	--	--
			00847	00004	DS	C.7.2.1	C.7.1.1.1	--	--
			00847	00005	DS	C.4.2.2	--	--	--
			00847	00006	DS	C.6.1	--	--	--
			00847	00007	DS	C.6.1	--	--	--
			00847	00008	DS	C.6.6	--	--	--
	Cook, Joanne		02144	00001	----------	C.3.1.2	--	--	--
			02144	00002	DS	C.5.2	--	--	--
			02144	00003	DS	C.7.1.1.8	--	--	--
			02144	00004	DS	C.7.1.1.1	C.7.2.1	--	--
			02144	00005	DS	C.4.2.2	--	--	--
			02144	00006	DS	C.6.1	--	--	--
			02144	00007	DS	C.6.1	--	--	--
			02144	00008	DS	C.6.6	--	--	--
	Cooper, Margaret		00857	00001	DS	C.7.4.4	--	--	--
			00857	00002	DS	C.7.4.4	--	--	--
			00857	00003	----------	C.3.4.4	--	--	--
	Cooper, Margaret Owen		02152	00001	DS	C.7.4.4	--	--	--
			02152	00002	DS	C.7.4.4	--	--	--
			02152	00003	----------	C.3.4.4	--	--	--
	Davis, Beverly		00499	00001	DS	C.5.1	--	--	--
			00499	00002	DS	C.7.4	--	--	--
			00499	00003A	DS	C.7.2.1	--	--	--
			00499	00003B	DS	C.6.5	--	--	--
			00499	00003C	DS	C.7.4.2	--	--	--
			00499	00004	DS	C.6.5	--	--	--
			00499	00005	DS	C.7.3	--	--	--
			00499	00006	DS	C.6.2	C.7.4.4	--	--
	Dawson, Marjorie		00695	00001	----------	C.3.1.2	--	--	--
			00695	00003	----------	C.2.4.1	--	--	--
	Dawson, Marjorie Musick		02127	00001	----------	C.3.4.4	--	--	--
			02127	00003	----------	C.7.3	--	--	--
	Denko, Dr. John V.	Northwest Texas Hospital	01266	00001	DS	C.5.1	--	--	--
			01266	00002	DS	C.7.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01266	00003	----------	C.3.4.4	--	--	--
			01266	00004	----------	C.2.4.1	--	--	--
	Detten, Ralph		00868	00001	DS	C.5.1	--	--	--
			00868	00002	DS	C.7.4.2	--	--	--
	Devin, Delbert		00691	00001	----------	C.2.7	--	--	--
	Devin, Albert		00716	00001	----------	C.3.4.4	C.7.4.2	--	--
			00716	00002	DS	C.7.4.2	--	--	--
			00716	00003	----------	C.3.4.4	--	--	--
			00716	00004	----------	C.3.1.2	--	--	--
			00716	00005	----------	C.2.3.3	--	--	--
			00716	00006	----------	C.2.3.3	--	--	--
			00716	00007	DS	C.7.2	--	--	--
	Devin, Delbert		00885	00001	----------	C.2.7	--	--	--
			00885	00009	----------	C.3.4.2.1	--	--	--
	Downey, Margaret		00888	00001	DS	C.4.1.5.2	--	--	--
			00888	00002	DS	C.4.1.5.2	--	--	--
			00888	00003	DS	C.4.1.5.2	--	--	--
			00888	00004	DS	C.4.1.5.2	--	--	--
			00888	00005	DS	C.4.1.5.2	--	--	--
			00888	00006	DS	C.4.1.5.2	--	--	--
			00888	00007	DS	C.4.1.5.2	C.7.4.2	--	--
	Ford, Melva		00010	00001	----------	C.3.4.4	--	--	--
			00010	00002	DS	C.7.4	--	--	--
	Ford, Melva		00017	00001	----------	C.3.4.4	--	--	--
			00017	00002	----------	C.3.4.4	--	--	--
			00017	00003	----------	C.3.1.2	--	--	--
	Ford, Melva		00022	00001	DS	C.3.4.4	--	--	--
			00022	00002	----------	C.7.2	--	--	--
	Ford, Melva		00028	00001	----------	C.3.4.4	--	--	--
			00028	00002	DS	C.6.1	--	--	--
	Ford, Frank		00876	00001	----------	C.3.1.2	--	--	--
			00876	00003	----------	C.2.1.1	--	--	--
	Ford, Melva		01338	00001	----------	C.2.1.1	--	--	--
	Forrest, Richard		00851	00001	DS	C.4.1.2.3	--	--	--
			00851	00002	----------	C.7.4	--	--	--
			00851	00003	DS	C.4.1.3.1	C.4.1.2.2	--	--
			00851	00004	DS	C.7.4.3	--	--	--
			00851	00005	DS	C.7.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00851	00006	DS	C.4.1.5.3	--	--	--
			00851	00007	DS	C.4.1.5.3	C.7.4.3	--	--
			00851	00008	DS	C.7.4.5	--	--	--
			00851	00009	DS	C.7.4.3	--	--	--
			00851	00010	DS	C.7.2.8	--	--	--
			00851	00011	DS	C.4.1.5.3	--	--	--
			00851	00012	DS	C.7.4.5	C.4.1.3.5	--	--
			00851	00013	DS	C.6.1	--	--	--
			00851	00014	DS	C.7.4.1	--	--	--
			00851	00015	DS	C.7.4.1	--	--	--
			00851	00016	DS	C.7.4.4	--	--	--
			00851	00017	DS	C.7.1.2	--	--	--
			00851	00018	DS	C.4.1.3.1	--	--	--
			00851	00019	DS	C.4.1.5.2	--	--	--
			00851	00020	DS	C.7.4.5	--	--	--
			00851	00021	DS	C.7.4	--	--	--
			00851	00022	DS	C.4.2.2	--	--	--
			00851	00023	DS	C.7.4.4	--	--	--
			00851	00024	DS	C.7.2	--	--	--
			00851	00025	DS	C.6.5	--	--	--
			00851	00026A	DS	C.6.5	--	--	--
			00851	00026B	DS	C.7.3	--	--	--
			00851	00027	DS	C.7.4.4	--	--	--
			00851	00028	DS	C.7.4.3	--	--	--
			00851	00029	DS	C.7.3	--	--	--
			00851	00030	DS	C.7.4.3	--	--	--
	Forrest, Richard	Witherspoon, Aikin & Langley	01270	00001	DS	C.4.1.2.3	--	--	--
			01270	00002	DS	C.4.1.2.3	--	--	--
			01270	00003	DS	C.4.1.5.3	--	--	--
			01270	00004	DS	C.4.1.3.1	--	--	--
			01270	00005	DS	C.4.1.4	--	--	--
			01270	00006	DS	C.4.2.2	C.7.4.3	--	--
			01270	00007	DS	C.4.1.5.3	--	--	--
			01270	00008	DS	C.7.4.5	--	--	--
			01270	00009	DS	C.7.4.1	--	--	--
			01270	00010	DS	C.7.2.8	--	--	--
			01270	00011	DS	C.7.4.3	--	--	--
			01270	00012	DS	C.7.4.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01270	00013	DS	C.7.4.3	--	--	--
			01270	00014	DS	C.7.1.2	--	--	--
			01270	00015	DS	C.7.4.3	--	--	--
			01270	00016	DS	C.7.4.3	--	--	--
			01270	00017	DS	C.7.4.5	--	--	--
			01270	00018	----------	C.2.8.2	--	--	--
	Frishman, Steve	Nuclear Waste Prgrms. Office	02686	00001	----------	C.2.5.1	--	--	--
			02686	00002	----------	C.2.8.2	--	--	--
			02686	00003	----------	C.3.1.1	--	--	--
			02686	00004	----------	C.2.6.1	--	--	--
			02686	00005	----------	C.2.4.1	--	--	--
			02686	00006	DS	C.4.2.2	C.4.3	--	--
			02686	00007	DS	C.4.2.2	C.4.3	--	--
			02686	00008	DS	C.7.4.2	--	--	--
			02686	00009	DS	C.7.4.2	--	--	--
			02686	00010	DS	C.7.4.2	--	--	--
			02686	00011	DS	C.7.4.2	--	--	--
			02686	00012	----------	C.3.1.2	--	--	--
			02686	00013	----------	C.3.1.2	--	--	--
			02686	00014	DS	C.4.1.1.6	C.5.3	C.8.2	--
			02686	00015	DS	C.4.3	--	--	--
			02686	00016	----------	C.3.4.3	--	--	--
			02686	00017	----------	C.2.3.1	--	--	--
			02686	00018	----------	C.2.7	--	--	--
	Frishman, Steve	Nuclear Waste Prgrms. Office	02687	00001	----------	C.2.7	--	--	--
			02687	00003	----------	C.2.7	--	--	--
			02687	00005	----------	C.4.1.1.3	--	--	--
			02687	00006	DS	C.4.2.2	C.4.3	--	--
			02687	00007	DS	C.4.2.2	--	--	--
			02687	00008	DS	C.7.4.2	--	--	--
			02687	00009	DS	C.7.4.2	--	--	--
			02687	00010	DS	C.7.4.2	--	--	--
			02687	00011	----------	C.4.1.1	--	--	--
			02687	00012	----------	C.2.8	--	--	--
			02687	00014	DS	C.4.1.2.2	C.4.1.1.6	C.5.3	C.8.2
			02687	00015	DS	C.3.3.2	C.4.3	--	--
			02687	00017	----------	C.2.7	--	--	--
			02687	00022A	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			02687	00022B	----------	C.3.4.2	--	--	--
			02687	00022C	----------	C.3.4.1	--	--	--
			02687	00097	----------	C.2.3.1	--	--	--
			02687	00100	----------	C.2.3.1	--	--	--
			02687	00105	----------	C.2.2	--	--	--
			02687	00133	DS	C.7.3	--	--	--
			02687	00155	----------	C.2.1.2	--	--	--
			02687	00156	----------	C.2.1.2	--	--	--
	Frishman, Steve	Nuclear Waste Prgrms. Office	02688	00001	DS	C.4.1.1	--	--	--
			02688	00002	DS	C.4.1.1.1	--	--	--
			02688	00003	DS	C.4.1.1.6	--	--	--
			02688	00004	DS	C.4.1.1.2	--	--	--
			02688	00005	DS	C.4.1.1.6	--	--	--
			02688	00006A	DS	C.4.1.1.3	--	--	--
			02688	00006B	DS	C.4.3	--	--	--
			02688	00007	DS	C.4.1.1.5	--	--	--
			02688	00008	DS	C.4.1.1.5	--	--	--
			02688	00009	DS	C.4.1.1.5	--	--	--
			02688	00010	DS	C.4.1.1.5	--	--	--
			02688	000101	----------	C.2.7	--	--	--
			02688	00011	DS	C.4.1.1.6	--	--	--
			02688	00012	DS	C.4.1.2.2	--	--	--
			02688	00013	DS	C.4.2.2	--	--	--
			02688	00014	DS	C.8.2	--	--	--
			02688	00015	DS	C.5.11	--	--	--
			02688	00016	----------	C.2.4.1	--	--	--
			02688	00017	----------	C.2.4.1	--	--	--
			02688	00018	----------	C.2.4.1	--	--	--
			02688	00019	----------	C.2.4.1	--	--	--
			02688	00020	DS	C.7.3	C.2.8.2	--	--
			02688	00021	----------	C.2.4.1	--	--	--
			02688	00022	----------	C.2.4.1	--	--	--
			02688	00023	----------	C.2.4.1	--	--	--
			02688	00024	----------	C.2.4.1	--	--	--
			02688	00025	----------	C.2.4.1	--	--	--
			02688	00026	----------	C.2.4.1	--	--	--
			02688	00027	----------	C.2.4.1	--	--	--
			02688	00028	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			02688	00029	----------	C.2.4.1	--	--	--
			02688	00030	----------	C.2.4.1	--	--	--
			02688	00031	----------	C.2.4.1	--	--	--
			02688	00032	----------	C.2.4.1	--	--	--
			02688	00033	----------	C.2.4.1	--	--	--
			02688	00034	----------	C.2.4.1	--	--	--
			02688	00035	----------	C.2.4.1	--	--	--
			02688	00036	----------	C.2.4.1	--	--	--
			02688	00037	----------	C.2.4.1	--	--	--
			02688	00038	----------	C.2.4.1	--	--	--
			02688	00039	DS	C.7.3	--	--	--
			02688	00040	----------	C.2.4.1	--	--	--
			02688	00041	----------	C.2.4.1	--	--	--
			02688	00042	DS	C.7.3	--	--	--
			02688	00043	DS	C.7.3	--	--	--
			02688	00044	DS	C.7.3	--	--	--
			02688	00045	DS	C.7.3	--	--	--
			02688	00046	DS	C.7.3	--	--	--
			02688	00047	DS	C.4.1.4	--	--	--
			02688	00048	DS	C.7.1.1.9	--	--	--
			02688	00049	DS	C.4.3	C.7.3	--	--
			02688	00050	DS	C.4.3	C.7.3	--	--
			02688	00051	DS	C.4.1.4	--	--	--
			02688	00052	DS	C.7.3	--	--	--
			02688	00053	DS	C.7.3	--	--	--
			02688	00054	DS	C.7.3	C.7.4.1	--	--
			02688	00055	DS	C.7.3	--	--	--
			02688	00056	DS	C.7.3	--	--	--
			02688	00057	----------	C.2.7	--	--	--
			02688	00058	DS	C.4.3	--	--	--
			02688	00059	DS	C.4.3	--	--	--
			02688	00060	DS	C.4.3	C.7.2.8	C.7.2.1	C.7.3
			02688	00061	----------	C.3.4.3	--	--	--
			02688	00062	----------	C.3.4.3	--	--	--
			02688	00063	----------	C.3.4.3	--	--	--
			02688	00064	----------	C.3.1.1	--	--	--
			02688	00065	DS	C.7.4.1	--	--	--
			02688	00066	DS	C.7.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			02688	00067	DS	C.7.4	--	--	--
			02688	00068	DS	C.7.1.2	--	--	--
			02688	00069	DS	C.7.4.3	C.7.4.5	--	--
			02688	00070	----------	C.2.6.1	--	--	--
			02688	00071	DS	C.7.1.1.6	C.7.2.6	--	--
			02688	00072	DS	C.4.1.3.6	--	--	--
			02688	00073	DS	C.7.4.2	C.7.2.1	C.4.1.3.1	--
			02688	00074	DS	C.4.1.3.1	C.7.4.2	C.7.2.1	--
			02688	00075	DS	C.7.4.2	C.7.2.1	C.4.1.3.1	--
			02688	00076	DS	C.4.1.3.1	C.7.4.2	C.7.2.1	C.7.1.1.1
			02688	00077	----------	C.3.1.2	--	--	--
			02688	00078	----------	C.3.1.2	--	--	--
			02688	00079	----------	C.3.1.2	--	--	--
			02688	00080	DS	C.7.2.7	C.6.6	--	--
			02688	00081	DS	C.6.6	--	--	--
			02688	00082	----------	C.2.4.1	--	--	--
			02688	00083	----------	C.2.4.1	--	--	--
			02688	00084	DS	C.4.2.2	--	--	--
			02688	00085	DS	C.4.3	--	--	--
			02688	00086	DS	C.4.3	--	--	--
			02688	00087	DS	C.4.1.3.2	--	--	--
			02688	00088	DS	C.4.1.3.6	--	--	--
			02688	00089	DS	C.4.1.4	--	--	--
			02688	00090	DS	C.7.1.1.3	--	--	--
			02688	00091	DS	C.4.2.2	--	--	--
			02688	00092	DS	C.7.2.8	C.8.3	--	--
			02688	00093	DS	C.7.2	--	--	--
			02688	00094	----------	C.3.4.1	--	--	--
			02688	00095	DS	C.7.4.2	--	--	--
			02688	00096	DS	C.7.4	--	--	--
			02688	00097	----------	C.2.1.3	--	--	--
			02688	00098	DS	C.7.1.1.3	C.7.2.3	--	--
			02688	00099	DS	C.7.1.1.3	C.7.2.3	--	--
			02688	00100	DS	C.7.1.1.3	C.7.2.3	--	--
			02688	00102	DS	C.4.1.2.2	--	--	--
			02688	00103	DS	C.4.1.2.2	--	--	--
			02688	00104	DS	C.7.2	--	--	--
			02688	00105	DS	C.7.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			02688	00106	DS	C.5.1	--	--	--
			02688	00107	DS	C.4.1.2.3	--	--	--
			02688	00108	DS	C.4.1.2.3	--	--	--
			02688	00109	DS	C.4.1.2.3	--	--	--
			02688	00110	DS	C.4.1.2.3	--	--	--
			02688	00111	DS	C.4.1.2.3	--	--	--
			02688	00112	DS	C.4.1.2.3	--	--	--
			02688	00113	DS	C.4.2.2	--	--	--
			02688	00114	DS	C.4.2.2	--	--	--
			02688	00115	DS	C.4.2.2	--	--	--
			02688	00116	DS	C.7.4	--	--	--
			02688	00117	DS	C.7.4	--	--	--
			02688	00118	DS	C.4.1.2.2	C.5.1	--	--
			02688	00119	DS	C.7.1.1.8	C.7.2.8	--	--
			02688	00120	DS	C.4.1.2.2	--	--	--
			02688	00121	DS	C.4.2.2	--	--	--
			02688	00122	DS	C.4.2.2	--	--	--
			02688	00128	----------	C.2.1.1	--	--	--
	Frishman, Steve	Nuclear Waste Prgrms. Office	02689	00001	DS	C.7.4.2	--	--	--
			02689	00002	DS	C.7.4.2	--	--	--
			02689	00003	DS	C.7.4.2	--	--	--
			02689	00004	DS	C.7.4.1	--	--	--
			02689	00005	DS	C.7.4.2	--	--	--
			02689	00006	----------	C.2.7	--	--	--
			02689	00007	DS	C.7.4	--	--	--
	Frishman, Steve	State of Texas	01381	00001	----------	C.2.7	--	--	--
			01381	00002	----------	C.2.7	--	--	--
			01381	00003	DS	C.4.1.4	--	--	--
			01381	00004	DS	C.4.1.1.3	--	--	--
			01381	00005	DS	C.4.1.2.2	--	--	--
			01381	00006	DS	C.4.1.1.3	--	--	--
			01381	00007	DS	C.4.1.3.1	--	--	--
			01381	00008	DS	C.4.1.5.2	--	--	--
			01381	00009	DS	C.7.1.1.1	C.4.2.1	--	--
			01381	00010	DS	C.7.1.1.8	--	--	--
			01381	00011	DS	C.4.3	C.7.2	--	--
			01381	00012	DS	C.7.2.8	--	--	--
			01381	00013	DS	C.7.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01381	00014	DS	C.5.10	--	--	--
			01381	00015	----------	C.2.7	--	--	--
			01381	00016	DS	C.3.3.1	C.4.1.2.2	--	--
			01381	00017	DS	C.3.1.3	--	--	--
			01381	00018	DS	C.4.1.2.2	--	--	--
			01381	00019	DS	C.3.1.3	--	--	--
			01381	00020	DS	C.4.1.2.2	--	--	--
			01381	00021	DS	C.3.1.3	--	--	--
			01381	00022	DS	C.3.1.3	--	--	--
			01381	00023	DS	C.3.1.3	--	--	--
			01381	00024	DS	C.3.1.3	--	--	--
			01381	00025	DS	C.4.1.1.1	--	--	--
			01381	00026	DS	C.4.1.1.1	--	--	--
			01381	00027	DS	C.4.1.1.1	--	--	--
			01381	00028	DS	C.4.1.1.2	--	--	--
			01381	00029	DS	C.4.1.1.2	--	--	--
			01381	00030	DS	C.4.1.1.2	--	--	--
			01381	00031	DS	C.4.1.1.3	--	--	--
			01381	00032	DS	C.4.1.1.3	--	--	--
			01381	00033	DS	C.4.1.1.3	--	--	--
			01381	00034	DS	C.4.1.1.3	--	--	--
			01381	00035	DS	C.4.1.1.3	--	--	--
			01381	00036	DS	C.4.1.1.3	--	--	--
			01381	00037	DS	C.4.1.1.5	--	--	--
			01381	00038	DS	C.4.1.1.5	--	--	--
			01381	00039	DS	C.4.1.1.5	--	--	--
			01381	00040	DS	C.4.1.1.5	--	--	--
			01381	00041	DS	C.4.1.1.3	--	--	--
			01381	00042	DS	C.4.1.1.5	--	--	--
			01381	00043	DS	C.4.1.1.5	--	--	--
			01381	00044	DS	C.4.1.1.5	--	--	--
			01381	00045	DS	C.4.1.1.5	--	--	--
			01381	00046	DS	C.4.1.1.5	--	--	--
			01381	00047	DS	C.4.1.1.6	--	--	--
			01381	00048	DS	C.4.1.1.6	--	--	--
			01381	00049	DS	C.4.1.1.6	--	--	--
			01381	00050	DS	C.4.1.1.6	--	--	--
			01381	00051	DS	C.4.1.1.6	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01381	00052	DS	C.4.1.1.6	--	--	--
			01381	00053	DS	C.4.1.1.6	--	--	--
			01381	00054	DS	C.4.1.1.6	--	--	--
			01381	00055	DS	C.4.1.1.6	--	--	--
			01381	00056	DS	C.4.1.1.6	--	--	--
			01381	00057	DS	C.4.1.1.6	--	--	--
			01381	00058	DS	C.4.1.1.8	--	--	--
			01381	00059	DS	C.4.1.1.8	--	--	--
			01381	00060	DS	C.4.1.1.9	--	--	--
			01381	00061	DS	C.4.1.1.9	--	--	--
			01381	00062	DS	C.4.1.2.2	--	--	--
			01381	00063	DS	C.4.1.1.9	--	--	--
			01381	00064	DS	C.4.1.2.1	--	--	--
			01381	00065	DS	C.4.1.2.1	--	--	--
			01381	00066	DS	C.4.1.2.1	--	--	--
			01381	00067	DS	C.4.1.2.1	--	--	--
			01381	00068	DS	C.4.1.2.2	--	--	--
			01381	00069	DS	C.4.1.2.2	--	--	--
			01381	00070	DS	C.4.1.2.3	--	--	--
			01381	00071	DS	C.4.1.2.2	--	--	--
			01381	00072	DS	C.4.1.2.2	--	--	--
			01381	00073	DS	C.4.1.2.2	--	--	--
			01381	00074	DS	C.4.1.2.2	--	--	--
			01381	00075	DS	C.4.1.2.2	--	--	--
			01381	00076	DS	C.4.1.2.2	--	--	--
			01381	00077	DS	C.4.1.2.2	--	--	--
			01381	00078	DS	C.4.1.2.2	--	--	--
			01381	00079	DS	C.4.1.2.2	--	--	--
			01381	00080	DS	C.4.1.2.2	--	--	--
			01381	00081	DS	C.4.1.1.7	--	--	--
			01381	00082	DS	C.4.1.2.2	--	--	--
			01381	00083	DS	C.4.1.2.3	--	--	--
			01381	00084	DS	C.4.1.2.3	--	--	--
			01381	00085	DS	C.4.1.3.1	--	--	--
			01381	00086	DS	C.4.1.3.1	--	--	--
			01381	00087	DS	C.4.1.3.2	--	--	--
			01381	00088	DS	C.4.1.3.2	--	--	--
			01381	00089	DS	C.4.1.3.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01381	00090	DS	C.4.1.3.3	--	--	--
			01381	00091	DS	C.4.1.3.3	--	--	--
			01381	00092	DS	C.4.1.3.3	--	--	--
			01381	00093	DS	C.4.1.3.3	--	--	--
			01381	00094	DS	C.4.1.3.3	--	--	--
			01381	00095	DS	C.4.1.3.3	--	--	--
			01381	00096	DS	C.4.1.3.4	--	--	--
			01381	00097	DS	C.4.1.3.5	--	--	--
			01381	00098	DS	C.4.1.3.4	--	--	--
			01381	00099	DS	C.4.1.3.6	--	--	--
			01381	00100	DS	C.4.1.3.7	--	--	--
			01381	00101	DS	C.4.1.4	--	--	--
			01381	00102	DS	C.4.1.4	--	--	--
			01381	00103	DS	C.4.1.5	--	--	--
			01381	00104	DS	C.4.2.2	--	--	--
			01381	00105	DS	C.4.2.1	--	--	--
			01381	00106	DS	C.4.2.1	--	--	--
			01381	00107	DS	C.4.2.1	--	--	--
			01381	00108	DS	C.4.2.2	--	--	--
			01381	00109	DS	C.4.2.1	--	--	--
			01381	00110	DS	C.4.2.2	--	--	--
			01381	00111	DS	C.4.2.2	--	--	--
			01381	00112	DS	C.4.2.2	--	--	--
			01381	00113	DS	C.4.2.2	--	--	--
			01381	00114	DS	C.4.2.2	--	--	--
			01381	00115	DS	C.4.2.2	--	--	--
			01381	00116	DS	C.4.2.2	--	--	--
			01381	00117	DS	C.4.2.2	--	--	--
			01381	00118	DS	C.4.2.3	--	--	--
			01381	00119	DS	C.4.2.3	--	--	--
			01381	00120	DS	C.7.1.1	--	--	--
			01381	00121	DS	C.7.1.1	--	--	--
			01381	00122	DS	C.7.1.1.3	--	--	--
			01381	00123	DS	C.7.1.1.3	--	--	--
			01381	00124	DS	C.7.1.1.3	--	--	--
			01381	00125	DS	C.7.1.1.8	--	--	--
			01381	00126	DS	C.7.1.1.8	--	--	--
			01381	00127	DS	C.7.1.1.8	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01381	00128	DS	C.7.1.1.8	--	--	--
			01381	00129	DS	C.7.1.1.8	--	--	--
			01381	00130	DS	C.7.1.1.8	--	--	--
			01381	00131	DS	C.7.1.1.1	--	--	--
			01381	00132	DS	C.7.1.1.1	--	--	--
			01381	00133	DS	C.7.1.1.1	--	--	--
			01381	00134	DS	C.7.1.1.5	--	--	--
			01381	00135	DS	C.7.1.1.5	--	--	--
			01381	00136	DS	C.7.1.1.4	--	--	--
			01381	00137	DS	C.7.1.1.4	--	--	--
			01381	00138	DS	C.7.1.1.1	--	--	--
			01381	00139	DS	C.7.1.1.9	--	--	--
			01381	00140	DS	C.7.1.1.9	--	--	--
			01381	00141	DS	C.7.1.2	--	--	--
			01381	00142	DS	C.4.2.2	--	--	--
			01381	00143	DS	C.7.4.2	--	--	--
			01381	00144	DS	C.4.3	--	--	--
			01381	00145	DS	C.4.3	--	--	--
			01381	00146	DS	C.4.3	--	--	--
			01381	00147	DS	C.4.3	--	--	--
			01381	00148	DS	C.4.3	--	--	--
			01381	00149	DS	C.7.2.1	--	--	--
			01381	00150	DS	C.7.2.8	--	--	--
			01381	00151	DS	C.7.2.8	--	--	--
			01381	00152	DS	C.7.2.8	--	--	--
			01381	00153	DS	C.7.2.8	--	--	--
			01381	00154	DS	C.7.2.8	--	--	--
			01381	00155	DS	C.7.2.1	--	--	--
			01381	00156	DS	C.7.2.1	--	--	--
			01381	00157	DS	C.7.2.2	--	--	--
			01381	00158	DS	C.7.2.1	--	--	--
			01381	00159	DS	C.7.2.3	--	--	--
			01381	00160	DS	C.7.2.3	--	--	--
			01381	00161	DS	C.7.2.2	--	--	--
			01381	00162	DS	C.7.1.1.4	--	--	--
			01381	00163	DS	C.7.2.5	--	--	--
			01381	00164	DS	C.7.2.5	--	--	--
			01381	00165	DS	C.7.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01381	00166	DS	C.7.3	--	--	--
			01381	00167	DS	C.7.4.2	--	--	--
			01381	00168	DS	C.7.4.3	--	--	--
			01381	00169	DS	C.6.1	--	--	--
			01381	00170	DS	C.6.3	--	--	--
			01381	00171	DS	C.6.4	--	--	--
			01381	00172	DS	C.7.2.3	--	--	--
			01381	00173	DS	C.7.2.8	--	--	--
			01381	00174	DS	C.7.2.1	--	--	--
			01381	00175	DS	C.6.3	--	--	--
			01381	00176	DS	C.7.2	--	--	--
			01381	00177	DS	C.7.2	--	--	--
			01381	00178	DS	C.6.1	--	--	--
			01381	00179	DS	C.6.5	--	--	--
			01381	00180	DS	C.7.3	--	--	--
			01381	00181	DS	C.5.1	--	--	--
			01381	00182	DS	C.5.1	--	--	--
			01381	00183	DS	C.5.1	--	--	--
			01381	00184	DS	C.5.1	--	--	--
			01381	00185	DS	C.5.2	--	--	--
			01381	00186	DS	C.5.2	--	--	--
			01381	00187	DS	C.5.3	--	--	--
			01381	00188	DS	C.5.3	--	--	--
			01381	00189	DS	C.5.3	--	--	--
			01381	00190	DS	C.5.3	--	--	--
			01381	00191	DS	C.5.4	--	--	--
			01381	00192	DS	C.5.5	--	--	--
			01381	00193	DS	C.5.6	--	--	--
			01381	00194	DS	C.5.6	--	--	--
			01381	00195	DS	C.5.1	--	--	--
			01381	00196	DS	C.5.4	--	--	--
			01381	00197	DS	C.5.7	--	--	--
			01381	00198	DS	C.8.5	--	--	--
			01381	00199	DS	C.8.3	--	--	--
			01381	00200	DS	C.8.4	--	--	--
			01381	00201	DS	C.8.1	--	--	--
			01381	00202	DS	C.5.11	--	--	--
			01381	00203	DS	C.5.11	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01381	00204	DS	C.5.11	--	--	--
			01381	00205	DS	C.5.11	--	--	--
			01381	00207	----------	C.3.4.1	--	--	--
			01381	00208	----------	C.3.4.1	--	--	--
			01381	00209	----------	C.3.4.1	--	--	--
			01381	00210	----------	C.3.4.1	--	--	--
			01381	00211	----------	C.3.4.1	--	--	--
			01381	00212	----------	C.3.4.1	--	--	--
			01381	00213	----------	C.3.4.1	--	--	--
			01381	00214	----------	C.3.4.1	--	--	--
			01381	00215	----------	C.3.4.1	--	--	--
			01381	00216	----------	C.3.4.1	--	--	--
			01381	00217	----------	C.3.4.1	--	--	--
			01381	00218	----------	C.3.4.1	--	--	--
			01381	00219	----------	C.3.4.1	--	--	--
			01381	00220	----------	C.3.4.1	--	--	--
			01381	00221	----------	C.3.4.1	--	--	--
			01381	00222	----------	C.3.4.1	--	--	--
			01381	00223	----------	C.3.4.1	--	--	--
			01381	00224	----------	C.3.4.2.2	--	--	--
			01381	00225	----------	C.3.4.2	--	--	--
			01381	00226	----------	C.7.3	--	--	--
			01381	00227	----------	C.3.4.2	--	--	--
			01381	00228	----------	C.3.4.2.3	--	--	--
	Frishman, Steve	TX Dept. of Agriculture	01382	00002	DS	C.4.1.5	--	--	--
			01382	00003	DS	C.4.1.5.2	--	--	--
			01382	00004	DS	C.7.4	--	--	--
			01382	00005	DS	C.7.4	--	--	--
			01382	00006	DS	C.7.4	--	--	--
			01382	00007	DS	C.7.4.2	--	--	--
			01382	00008	DS	C.7.1.2	--	--	--
			01382	00009	----------	C.2.7	--	--	--
			01382	00010A	DS	C.7.2	--	--	--
			01382	00010B	DS	C.7.4	--	--	--
			01382	00011	DS	C.7.1.2	--	--	--
			01382	00012	DS	C.4.1.3.1	--	--	--
			01382	00013	DS	C.7.1.1.1	--	--	--
			01382	00014	DS	C.7.1.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01382	00015	DS	C.7.1.2	--	--	--
			01382	00016	DS	C.7.2.8	--	--	--
			01382	00017A	DS	C.4.3	--	--	--
			01382	00017B	DS	C.7.1.1	--	--	--
			01382	00018	DS	C.4.3	--	--	--
			01382	00019	DS	C.4.3	--	--	--
			01382	00020	DS	C.7.4	--	--	--
			01382	00021	DS	C.7.2.7	--	--	--
			01382	00022	DS	C.7.2.7	--	--	--
			01382	00023	DS	C.7.4.1	--	--	--
			01382	00024	DS	C.7.4.1	--	--	--
			01382	00025	DS	C.7.4	--	--	--
			01382	00026	DS	C.7.4.2	--	--	--
			01382	00027	DS	C.7.4.2	--	--	--
			01382	00028	DS	C.7.4.2	--	--	--
			01382	00029	DS	C.7.4.2	--	--	--
			01382	00030	DS	C.7.2.7	C.7.4	--	--
			01382	00031	DS	C.6.1	--	--	--
			01382	00032	DS	C.7.2.1	--	--	--
			01382	00033A	DS	C.7.2.8	--	--	--
			01382	00033B	DS	C.7.2.1	--	--	--
			01382	00034	DS	C.4.1.5.2	--	--	--
			01382	00035	DS	C.7.4.2	--	--	--
			01382	00036	DS	C.3.2	--	--	--
			01382	00037	DS	C.7.2.7	--	--	--
			01382	00038	----------	C.3.4.2.2	--	--	--
			01382	00039	----------	C.3.4.2.2	--	--	--
	Frishman, Steve	Nuclear Wste. Prgrms. Office	01380	00001	----------	C.2.7	--	--	--
			01380	00001A	----------	C.2.1.1	--	--	--
			01380	00001B	DS	C.7.4	--	--	--
			01380	00002A	DS	C.7.4	--	--	--
			01380	00002B	DS	C.7.4	--	--	--
			01380	00003	DS	C.7.4.1	--	--	--
			01380	00004	DS	C.7.4.1	--	--	--
			01380	00005	DS	C.4.1.4	--	--	--
			01380	00006	DS	C.7.3	C.7.1.1.9	--	--
			01380	00007	DS	C.7.1.1.9	--	--	--
			01380	00008	DS	C.7.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01380	00009	DS	C.4.1.5.1	--	--	--
			01380	00010	DS	C.4.1.5.1	--	--	--
			01380	00011	DS	C.4.1.5.1	--	--	--
			01380	00012	DS	C.4.1.5.1	--	--	--
			01380	00013	DS	C.4.1.5.1	--	--	--
			01380	00014A	DS	C.4.3	C.7.4.2	--	--
			01380	00014B	DS	C.4.1.5.1	--	--	--
			01380	00014C	DS	C.4.3	C.7.4.2	--	--
			01380	00015	DS	C.7.4.1	--	--	--
			01380	00016	DS	C.7.4.1	--	--	--
			01380	00017	DS	C.7.4.1	--	--	--
			01380	00018	DS	C.7.4.1	--	--	--
			01380	00019	DS	C.7.4.1	--	--	--
			01380	00020	DS	C.7.4.1	--	--	--
			01380	00021	DS	C.7.4.1	--	--	--
			01380	00022	DS	C.7.4.1	--	--	--
			01380	00023	DS	C.7.4.1	--	--	--
			01380	00024	DS	C.7.4.1	--	--	--
			01380	00025	DS	C.7.4.1	--	--	--
			01380	00026	DS	C.7.4.1	--	--	--
			01380	00027	DS	C.7.4.5	--	--	--
			01380	00028	DS	C.7.4.5	--	--	--
			01380	00029	DS	C.7.4.5	--	--	--
			01380	00030	DS	C.7.4.5	--	--	--
			01380	00031	DS	C.7.4.5	--	--	--
			01380	00032	DS	C.7.4.5	--	--	--
			01380	00034A	DS	C.4.1.5.3	--	--	--
			01380	00035	DS	C.4.1.3.3	--	--	--
			01380	00036	DS	C.4.2.2	--	--	--
			01380	00037	DS	C.4.2.2	--	--	--
			01380	00038	DS	C.4.2.2	--	--	--
			01380	00039	DS	C.7.1.1.1	--	--	--
			01380	00040	DS	C.7.1.1.9	--	--	--
			01380	00041	DS	C.7.1.1.9	--	--	--
			01380	00042	DS	C.7.1.2	--	--	--
			01380	00043	DS	C.4.1.5.1	--	--	--
			01380	00044	DS	C.7.1.2	--	--	--
			01380	00045	DS	C.7.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01380	00046	DS	C.7.1.2	C.7.4.1	--	--
			01380	00047	----------	C.4.3	--	--	--
			01380	00048	DS	C.7.4.1	--	--	--
			01380	00049	DS	C.4.2.2	--	--	--
			01380	00050	DS	C.7.1.2	--	--	--
			01380	00051	DS	C.7.1.1.9	--	--	--
	Galbraith, Shirley		00852	00001A	DS	C.7.4.3	--	--	--
			00852	00001B	----------	C.3.1.1	--	--	--
			00852	00002	DS	C.7.4.4	--	--	--
			00852	00002B	----------	C.3.1	--	--	--
			00852	00003	DS	C.7.4	--	--	--
			00852	00004	DS	C.7.4.2	--	--	--
	Galbraith, Shirley		02148	00001A	DS	C.7.4.3	--	--	--
			02148	00001B	----------	C.3.1.1	--	--	--
			02148	00002	DS	C.7.4.2	--	--	--
			02148	00003	DS	C.7.4	--	--	--
			02148	00004	DS	C.7.4.2	--	--	--
	Garrett, Bryce		00861	00001	DS	C.7.2.1	--	--	--
			00861	00002	DS	C.7.1.1.1	--	--	--
			00861	00003	DS	C.7.1.1.1	--	--	--
			00861	00004	DS	C.5.11	--	--	--
			00861	00005	DS	C.7.2	--	--	--
	Garrett, Bryce		02155	00001	DS	C.7.2.1	--	--	--
			02155	00002	DS	C.7.1.1.1	--	--	--
			02155	00003	DS	C.7.1.1.1	--	--	--
			02155	00004	DS	C.5.10	--	--	--
			02155	00005	DS	C.7.2	--	--	--
	Gibbons, Lucille		00873	00001	DS	C.7.4.2	--	--	--
			00873	00002	----------	C.3.4.4	--	--	--
			00873	00003	DS	C.5.8	--	--	--
			00873	00004	DS	C.4.3	--	--	--
			00873	00005	DS	C.4.3	--	--	--
			00873	00006	DS	C.6.5	--	--	--
			00873	00007	DS	C.4.3	--	--	--
			00873	00008	DS	C.4.3	--	--	--
			00873	00009	----------	C.2.7	--	--	--
			00873	00010	DS	C.7.4.2	--	--	--
			00873	00011	DS	C.7.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00873	00012	DS	C.7.4.2	--	--	--
	Gierisch, Bobby		00877	00001	DS	C.7.4.2	--	--	--
			00877	00002	----------	C.3.4.4	C.2.1.1	--	--
	Gilliam, Winston E.		02111	00001	DS	C.5.11	--	--	--
			02111	00002	DS	C.5.10	--	--	--
	Givans, Cam		00702	00001	DS	C.7.4.2	--	--	--
			00702	00002	----------	C.3.4.4	--	--	--
			00702	00003	----------	C.2.1.1	--	--	--
	Hamilton, Jo		00007	00001	----------	C.3.1.2	--	--	--
			00007	00002	----------	C.2.1.1	--	--	--
	Hancock, Don		00717	00008	----------	C.2.1.1	--	--	--
			00717	00009	----------	C.3.1.1	--	--	--
			00717	00011	----------	C.3.1.1	--	--	--
	Hancock, Don		00869	00001	----------	C.3.4.1	--	--	--
			00869	00002	----------	C.3.4.3	--	--	--
			00869	00003	DS	C.6.3	C.3.4.2.2	--	--
			00869	00004	----------	C.3.4.2.1	--	--	--
			00869	00005	----------	C.3.4.2.2	--	--	--
			00869	00006	----------	C.3.4.3	--	--	--
	Hancock, Don		00884	00001	----------	C.2.7	--	--	--
			00884	00002	DS	C.3.1.3	--	--	--
			00884	00004	DS	C.7.1.1	C.7.1.2	--	--
			00884	00005	DS	C.4.3	--	--	--
			00884	00008	----------	C.2.3.1	--	--	--
	Hancock, Don	Landowners in Deaf Smith, Swisher	01260	00001	DS	C.3.2	--	--	--
			01260	00002	DS	C.3.3	--	--	--
			01260	00003	----------	C.3.1.2	--	--	--
			01260	00004	----------	C.3.1.2	--	--	--
			01260	00005	----------	C.2.8	--	--	--
			01260	00006	----------	C.4.1	--	--	--
			01260	00007	----------	C.2.7	--	--	--
			01260	00008	----------	C.2.8.3	--	--	--
			01260	00009	----------	C.2.8	--	--	--
			01260	00010	----------	C.2.7	--	--	--
			01260	00011	----------	C.3.1.2	--	--	--
			01260	00012	----------	C.2.7	--	--	--
			01260	00013	----------	C.2.7	--	--	--
			01260	00014	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01260	00015	----------	C.2.7	--	--	--
			01260	00017	DS	C.4.1.3.1	--	--	--
			01260	00020	----------	C.2.8.3	--	--	--
			01260	00021	----------	C.3.1.2	--	--	--
			01260	00022	----------	C.2.7	--	--	--
			01260	00023	----------	C.3.1.2	--	--	--
			01260	00024	----------	C.3.1.2	--	--	--
			01260	00025	----------	C.3.1.2	--	--	--
			01260	00026	----------	C.2.1.1	--	--	--
			01260	00027	----------	C.3.1.2	--	--	--
			01260	00028	DS	C.3.1.3	--	--	--
			01260	00030	DS	C.3.2	--	--	--
			01260	00031	DS	C.3.2	--	--	--
			01260	00032	----------	C.3.1.2	--	--	--
			01260	00033	----------	C.3.4.2.2	--	--	--
			01260	00034	DS	C.3.2	--	--	--
			01260	00035	DS	C.4.1	--	--	--
			01260	00036	DS	C.4.1	--	--	--
			01260	00037	DS	C.4.1	--	--	--
			01260	00038	DS	C.4.1.1.5	--	--	--
			01260	00039	DS	C.4.1.1.5	--	--	--
			01260	00040	DS	C.4.1.1.5	--	--	--
			01260	00041	DS	C.4.1.1.3	--	--	--
			01260	00042	DS	C.4.1.1.8	--	--	--
			01260	00043	DS	C.4.1.2.2	--	--	--
			01260	00044	DS	C.4.1.2.2	--	--	--
			01260	00045	DS	C.4.1.2.3	--	--	--
			01260	00046	DS	C.4.1.2.3	--	--	--
			01260	00047	DS	C.4.1.3.1	--	--	--
			01260	00048	DS	C.4.1.3.1	--	--	--
			01260	00049	DS	C.4.1.3.1	--	--	--
			01260	00050	DS	C.4.2.3	--	--	--
			01260	00051	DS	C.7.1.1.1	--	--	--
			01260	00052	DS	C.7.1.1.1	--	--	--
			01260	00053	DS	C.7.4.3	--	--	--
			01260	00054	DS	C.7.4.2	--	--	--
			01260	00055	DS	C.7.4.4	--	--	--
			01260	00056	DS	C.7.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01260	00057	DS	C.7.2.8	--	--	--
			01260	00058	DS	C.7.2.8	--	--	--
			01260	00059	DS	C.4.2.3	C.7.1.1.1	--	--
			01260	00060	DS	C.7.4.1	--	--	--
			01260	00061	DS	C.4.2.2	C.4.3	--	--
			01260	00062	DS	C.7.1.1.1	--	--	--
			01260	00063	DS	C.7.1.1.8	--	--	--
			01260	00064	DS	C.4.2.2	--	--	--
			01260	00065	DS	C.4.2.2	--	--	--
			01260	00066	DS	C.7.1.1.1	--	--	--
			01260	00067	DS	C.7.1.1.8	--	--	--
			01260	00068	DS	C.7.1.2	--	--	--
			01260	00069	DS	C.4.3	C.7.2.8	--	--
			01260	00070	DS	C.4.3	C.7.2.3	--	--
			01260	00071	DS	C.4.3	C.7.2.1	--	--
			01260	00072	DS	C.4.3	--	--	--
			01260	00073	DS	C.4.3	--	--	--
			01260	00074	DS	C.4.3	--	--	--
			01260	00075	DS	C.7.2.1	--	--	--
			01260	00076	DS	C.7.2.1	--	--	--
			01260	00077	DS	C.7.4.2	--	--	--
			01260	00078	DS	C.7.2.1	--	--	--
			01260	00079	DS	C.4.3	--	--	--
			01260	00080	DS	C.6.2	--	--	--
			01260	00081	DS	C.7.4.1	--	--	--
			01260	00082	DS	C.7.4.1	--	--	--
			01260	00083	DS	C.7.4.1	--	--	--
			01260	00084	DS	C.7.4	--	--	--
			01260	00085	DS	C.7.4	--	--	--
			01260	00086	DS	C.7.4	--	--	--
			01260	00087	DS	C.7.1.2	--	--	--
			01260	00088	----------	C.2.2	--	--	--
			01260	00089	----------	C.2.2	--	--	--
			01260	00090	DS	C.4.2.2	--	--	--
			01260	00091	DS	C.8.3	--	--	--
			01260	00092	----------	C.3.4.4	--	--	--
			01260	00093A	----------	C.3.4.4	--	--	--
			01260	00093B	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01260	00094	----------	C.3.4.4	--	--	--
			01260	00095	----------	C.3.4.2.1	--	--	--
			01260	00096	----------	C.3.4.2.1	--	--	--
			01260	00097	----------	C.3.4.2.1	--	--	--
			01260	00098	----------	C.3.4.2.1	--	--	--
			01260	00099	----------	C.4.2.2	--	--	--
			01260	00100	----------	C.4.2.2	--	--	--
			01260	00101	----------	C.3.4.2.2	--	--	--
			01260	00102	----------	C.3.4.2.2	--	--	--
			01260	00103	----------	C.3.4.4	--	--	--
			01260	00118	----------	C.3.1.2	--	--	--
			01260	00119	----------	C.2.7	--	--	--
			01260	00120	----------	C.2.7	--	--	--
			01260	00121	----------	C.3.1.2	--	--	--
			01260	00142	----------	C.2.2.1	--	--	--
			01260	00146	----------	C.2.4.1	--	--	--
			01260	00156	----------	C.3.1.2	--	--	--
			01260	00158	----------	C.2.2	--	--	--
			01260	00170	----------	C.2.2.1	--	--	--
			01260	00171	----------	C.2.4.3	--	--	--
			01260	00172	----------	C.2.1.1	--	--	--
	Hancock, Don	Stand and Power	02692	00001	DS	C.7.4.2	C.7.1.2	--	--
			02692	00002	----------	C.4.1.1	--	--	--
			02692	00003	----------	C.2.5.1	C.2.6.1	--	--
			02692	00004	----------	C.2.2	--	--	--
			02692	00005	DS	C.4.1	C.7.4	--	--
			02692	00006	----------	C.7.4.2	C.3.2	C.7.1.2	--
			02692	00007	----------	C.7.4.2	C.7.1.2	--	--
			02692	00008	----------	C.7.4.2	C.7.1.2	--	--
			02692	00009	----------	C.7.4.2	C.7.1.2	--	--
			02692	00010	----------	C.7.2.1	--	--	--
			02692	00011	----------	C.7.4.2	C.7.1.2	--	--
			02692	00012	----------	C.7.4.2	C.3.2	C.7.1.2	--
			02692	00013	----------	C.5.1	C.7.1.1.8	C.7.2.8	--
			02692	00014	----------	C.7.2	--	--	--
			02692	00015	DS	C.5.7	C.5.6	--	--
			02692	00016	----------	C.3.4.3	--	--	--
			02692	00017	----------	C.2.6.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			02692	00018	DS	C.7.4.2	--	--	--
			02692	00019	----------	C.3.4.2.2	C.2.4.1	--	--
			02692	00020	----------	C.2.5.1	--	--	--
			02692	00021	----------	C.2.6.1	--	--	--
	Haney, Ken		00839	00001	DS	C.7.1.1	--	--	--
	Harman, Otis		00700	00001	----------	C.3.4.4	--	--	--
	Harman, Otis	Texas Wheat Producers Assn.	02130	00001	----------	C.3.4.4	--	--	--
	Harrison, Dan		00897	00001	----------	C.3.4.4	--	--	--
	Harwell, Mark		00850	00001	----------	C.3.4.4	--	--	--
			00850	00002	----------	C.2.1.2	--	--	--
	Hector, Alice		00703	00002	----------	C.2.3.3	--	--	--
			00703	00003	----------	C.2.1.2	--	--	--
			00703	00004	----------	C.2.1.2	--	--	--
			00703	00005	----------	C.2.3.3	--	--	--
			00703	00006	----------	C.2.1.2	--	--	--
	Hector, Alice		00870	00001	DS	C.4.1	--	--	--
			00870	00002	----------	C.2.7	--	--	--
			00870	00003	----------	C.3.1.1	--	--	--
			00870	00004	----------	C.3.1.2	--	--	--
			00870	00005	DS	C.4.2.3	--	--	--
			00870	00006	----------	C.2.7	--	--	--
			00870	00007	DS	C.4.2.3	--	--	--
			00870	00008	DS	C.4.2.2	--	--	--
	Hector, Alice		00889	00001	DS	C.7.4.2	C.7.1.2	--	--
			00889	00002	----------	C.2.1.1	--	--	--
			00889	00004	DS	C.3.1.3	C.3.1.2	--	--
	Herring, John		00704	00001	----------	C.2.1.1	--	--	--
			00704	00002	----------	C.2.1.1	--	--	--
	Herrington, LaVerne	Texas Historical Commission	01747	00001	----------	C.2.8.2	--	--	--
	Hicks, Donald		00849	00001	DS	C.4.1.5.2	--	--	--
			00849	00002	DS	C.7.4.2	C.5.1	--	--
			00849	00003	DS	C.3.1.3	--	--	--
			00849	00004	DS	C.4.1	C.2.1.1	--	--
			00849	00005	DS	C.4.2.2	--	--	--
			00849	00006	DS	C.4.1.3.1	--	--	--
			00849	00007	DS	C.4.2.1	--	--	--
			00849	00008	DS	C.7.4.2	--	--	--
			00849	00009	DS	C.5.1	--	--	

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
	Hicks, Renea		00880	00001	----------	C.3.4.4	--	--	--
			00880	00002A	----------	C.2.2.1	--	--	--
			00880	00002B	----------	C.3.1.2	--	--	--
			00880	00002C	----------	C.3.4.4	--	--	--
	Hicks, Donald		02146	00001	DS	C.4.1	C.3.4.4	--	--
			02146	00002	DS	C.4.2.2	--	--	--
			02146	00003	DS	C.4.1.3.1	--	--	--
			02146	00004	DS	C.4.2.1	--	--	--
			02146	00005	DS	C.4.1.5.4	--	--	--
			02146	00006	DS	C.5.1	--	--	--
	Hicks, Donald	Grain Sorghum Producers Assn.	02145	00001	DS	C.4.1.5.2	--	--	--
			02145	00002	DS	C.5.1	C.7.4.2	--	--
			02145	00003	DS	C.3.1.3	--	--	--
	Hightower, Commissioner Jim		00878	00001	DS	C.7.2.1	C.7.4.2	--	--
			00878	00002	DS	C.7.2.1	C.7.4.2	--	--
			00878	00003	DS	C.4.1.3.1	C.7.4.2	C.7.2.1	--
			00878	00004	DS	C.4.1.3.1	--	--	--
			00878	00005	DS	C.4.1.2.2	--	--	--
			00878	00006	DS	C.4.1.5.3	C.3.1.3	--	--
			00878	00007	----------	C.3.1.2	--	--	--
			00878	00008	DS	C.7.4	--	--	--
			00878	00009	DS	C.7.4	--	--	--
			00878	00010	DS	C.7.4	--	--	--
			00878	00011	DS	C.7.4.2	--	--	--
	Hightower, Jim	Commissioner of Agriculture	02128	00001	----------	C.2.7	--	--	--
	Hogue, Sanny Sue		00874	00001	DS	C.5.1	--	--	--
			00874	00002	DS	C.6.3	--	--	--
			00874	00003	DS	C.5.1	--	--	--
			00874	00004	----------	C.2.8.1	--	--	--
	House, Gary		00694	00001	----------	C.3.4.4	--	--	--
	Irlbeck, Albert		00718	00001	----------	C.3.1.1	--	--	--
			00718	00002	DS	C.7.4.3	--	--	--
			00718	00003	DS	C.7.4.3	--	--	--
			00718	00004	DS	C.4.3	--	--	--
			00718	00005	DS	C.5.11	--	--	--
			00718	00006	DS	C.7.4.3	--	--	--
			00718	00007	DS	C.7.4.5	--	--	--
			00718	00008	DS	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00718	00009	----------	C.7.3	--	--	--
			00718	00010	----------	C.3.1.2	--	--	--
	Jacobson, Robert		00863	00001	DS	C.4.1.1.2	--	--	--
			00863	00002	DS	C.7.2.1	--	--	--
			00863	00003	DS	C.5.1	--	--	--
			00863	00004	DS	C.5.1	--	--	--
			00863	00005	DS	C.4.3	--	--	--
			00863	00006	DS	C.5.1	--	--	--
	Jacobson, Robert	Panhandle Assoc Soil and Water	02157	00001	DS	C.7.2.1	--	--	--
			02157	00002	DS	C.5.1	--	--	--
			02157	00003	DS	C.5.1	--	--	--
			02157	00004	DS	C.4.3	--	--	--
			02157	00005	DS	C.5.1	--	--	--
	Jones, Cal		00844	00001	DS	C.7.4.2	--	--	--
			00844	00002	DS	C.5.1	C.4.1.2.2	--	--
			00844	00003	DS	C.4.1.5.2	--	--	--
			00844	00004	DS	C.7.4.2	--	--	--
	Jones, Calvin K.	Holly Sugar Corporation	02142	00001	DS	C.7.4.2	--	--	--
			02142	00002	DS	C.5.1	--	--	--
			02142	00003	DS	C.4.1.5.2	--	--	--
			02142	00004	DS	C.7.4.2	--	--	--
	Keith, Ronnie W.		00066	00001A	----------	C.3.4.4	--	--	--
			00066	00001B	----------	C.3.4.4	--	--	--
	Kent, Leonard		00841	00001	DS	C.4.1.5.3	--	--	--
			00841	00002A	DS	C.7.4.3	--	--	--
			00841	00002B	DS	C.4.1.5.3	--	--	--
			00841	00003	DS	C.7.4.5	--	--	--
	Kent, Leonard	Vega Independent School District	00183	00001	DS	C.7.4	--	--	--
			00183	00002	DS	C.7.1.2	--	--	--
	Kent, Leonard		02141	00001	DS	C.7.4.3	--	--	--
			02141	00002A	DS	C.7.4.3	--	--	--
			02141	00002B	DS	C.4.1.5.3	--	--	--
			02141	00003	DS	C.7.4.3	--	--	--
	King, Carl		00856	00001	DS	C.7.4.2	--	--	--
			00856	00002	DS	C.7.4.2	--	--	--
			00856	00003	DS	C.7.4.2	--	--	--
			00856	00004	DS	C.4.3	--	--	--
			00856	00005	DS	C.6.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00856	00006	DS	C.7.2.1	--	--	--
			00856	00007	DS	C.7.4.2	--	--	--
	Kirkpatrick, Ann		02136	00001	----------	C.3.1.2	--	--	--
			02136	00002	DS	C.5.1	--	--	--
			02136	00003	DS	C.7.4.2	--	--	--
	Kleinkauf, Kathleen		00506	00001	----------	C.3.4.4	--	--	--
			00506	00002	DS	C.5.1	C.5.11	--	--
	Kleuskens, Tonya		00846	00001	----------	C.2.1.1	--	--	--
			00846	00002	DS	C.3.2	--	--	--
			00846	00003	DS	C.3.1.3	--	--	--
			00846	00004	DS	C.4.1	--	--	--
			00846	00005	----------	C.2.1.1	--	--	--
			00846	00006	----------	C.2.1.1	--	--	--
			00846	00007	DS	C.6.5	--	--	--
			00846	00008	DS	C.4.3	--	--	--
			00846	00009	DS	C.4.1	C.7.3	--	--
			00846	00010	DS	C.4.3	--	--	--
			00846	00011	DS	C.4.3	--	--	--
			00846	00012	DS	C.6.5	C.5.11	--	--
			00846	00013	DS	C.5.1	--	--	--
			00846	00014	DS	C.4.1.5.2	--	--	--
			00846	00015	----------	C.2.2	--	--	--
			00846	00016	DS	C.4.3	--	--	--
			00846	00017	DS	C.6.2	--	--	--
			00846	00018	DS	C.3.1.3	--	--	--
			00846	00019	DS	C.7.4.2	--	--	--
	La Fever, Lou Ann		00011	00001	DS	C.7.4	--	--	--
			00011	00002	DS	C.5.10	--	--	--
			00011	00003	DS	C.7.4	--	--	--
			00011	00004	----------	C.3.1.2	--	--	--
	Lamb, Angela		00690	00001	DS	C.7.4.2	--	--	--
			00690	00002	DS	C.7.4.2	--	--	--
			00690	00003	DS	C.7.4.2	--	--	--
			00690	00004	DS	C.7.4.2	--	--	--
			00690	00005	----------	C.2.1.1	--	--	--
			00690	00006	DS	C.7.4.2	--	--	--
			00690	00007	DS	C.7.2.1	C.7.4.2	--	--
			00690	00008	DS	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00690	00009	DS	C.7.4.2	C.7.2.1	--	--
			00690	00010	DS	C.7.4.2	C.7.2.1	--	--
	Lamb, Angela K.	Department of Agriculture	02125	00001	DS	C.7.4.2	--	--	--
			02125	00002	DS	C.7.4.2	--	--	--
			02125	00003	DS	C.7.4.2	--	--	--
			02125	00004	DS	C.7.4.2	--	--	--
			02125	00005	----------	C.2.1.5	--	--	--
			02125	00006	DS	C.7.4.2	--	--	--
			02125	00007	DS	C.7.2.1	C.7.4.2	--	--
			02125	00008	DS	C.7.4.2	--	--	--
			02125	00009	DS	C.7.4.2	C.7.2.1	--	--
			02125	00010	DS	C.7.4.2	C.7.2.1	--	--
	Lloyd, Browning		00709	00001	----------	C.2.1.1	--	--	--
			00709	00002	----------	C.3.4.4	--	--	--
			00709	00003	----------	C.3.4.4	--	--	--
			00709	00004	----------	C.3.4.4	--	--	--
			00709	00005	----------	C.3.1.2	--	--	--
			00709	00006	----------	C.3.1.2	--	--	--
			00709	00007	----------	C.2.3.3	--	--	--
			00709	00008	----------	C.3.1.1	--	--	--
			00709	00009	----------	C.3.1.2	--	--	--
	McClurg, Mary M.	J. N. Montgomery Farms	00536	00005	----------	C.2.1.1	--	--	--
			00536	00006	----------	C.2.8.2	--	--	--
			00536	00007	----------	C.3.2	--	--	--
	McClurg, Mrs. Mary Montgomery		02134	00001	----------	C.3.4.4	--	--	--
			02134	00002	----------	C.2.3.2	--	--	--
			02134	00004	DS	C.7.4.2	--	--	--
			02134	00005	----------	C.2.3.3	--	--	--
			02134	00006	----------	C.2.1.5	--	--	--
	McKeever, Terry		00692	00001	----------	C.3.4.4	--	--	--
	McNeil, Marianne		00864	00001A	DS	C.5.1	--	--	--
			00864	00001B	DS	C.7.4.3	--	--	--
			00864	00001C	DS	C.7.4.2	--	--	--
	McNeil, Marianne		02158	00001	DS	C.5.1	--	--	--
			02158	00002	DS	C.7.2.8	C.7.2.1	--	--
			02158	00003	DS	C.7.4.2	--	--	--
			02158	00004	----------	C.3.1.2	--	--	--
			02158	00005	DS	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
	McReynolds, Don		00840	00001	DS	C.7.1.1	C.7.2.8	--	--
			00840	00002	DS	C.4.2.2	--	--	--
			00840	00003	DS	C.4.3	--	--	--
			00840	00004	DS	C.4.3	--	--	--
			00840	00005	DS	C.4.1.2.2	--	--	--
			00840	00006	DS	C.7.1.1.8	--	--	--
			00840	00007	DS	C.7.2.1	C.7.2.8	--	--
			00840	00008	DS	C.4.3	--	--	--
			00840	00009	DS	C.4.1.2.2	--	--	--
			00840	00010	DS	C.7.2.8	--	--	--
	McReynolds, Don	High Plains Underground Water	01243	00001	DS	C.7.1.1.8	C.5.1	--	--
			01243	00002	DS	C.4.2.2	C.4.3	--	--
			01243	00003	DS	C.4.2.2	C.4.3	C.5.1	--
			01243	00004	DS	C.4.1.2.2	--	--	--
			01243	00005	DS	C.7.1.1	C.7.2	--	--
			01243	00006	DS	C.7.1.1.8	C.7.2.8	--	--
			01243	00007	DS	C.4.1.2.2	--	--	--
			01243	00008	DS	C.4.1.2.3	--	--	--
			01243	00009	----------	C.2.7	--	--	--
			01243	00010	----------	C.3.1.2	--	--	--
			01243	00011	----------	C.2.3.2	--	--	--
			01243	00012	----------	C.2.4.1	--	--	--
			01243	00013	DS	C.4.1.2.2	C.5.1	--	--
			01243	00014	DS	C.4.1.2.2	--	--	--
			01243	00015	DS	C.4.1.2.3	--	--	--
			01243	00016	DS	C.4.1.2.2	C.7.2	--	--
			01243	00017	DS	C.4.1.2.3	--	--	--
			01243	00018	DS	C.7.4.2	--	--	--
			01243	00019	DS	C.7.2	C.7.4	--	--
			01243	00020	DS	C.7.2.2	--	--	--
			01243	00021	----------	C.2.7	--	--	--
			01243	00022	DS	C.4.1	--	--	--
			01243	00023	DS	C.7.4.2	--	--	--
			01243	00024	----------	C.2.1.1	--	--	--
			01243	00025	DS	C.4.1.1.5	--	--	--
			01243	00026	DS	C.4.2.2	C.4.1.2.3	--	--
			01243	00027	DS	C.7.2	--	--	--
			01243	00028	DS	C.4.1.2.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01243	00029	DS	C.6.5	C.7.4.1	--	--
			01243	00030	DS	C.5.3	--	--	--
			01243	00031	DS	C.4.1.2.3	--	--	--
			01243	00032	DS	C.4.1.2.2	--	--	--
			01243	00033	DS	C.4.1.2.3	--	--	--
			01243	00034	DS	C.4.1.1.6	--	--	--
			01243	00035	DS	C.4.1.1.6	--	--	--
			01243	00036	DS	C.4.1.2.2	--	--	--
			01243	00037	DS	C.4.1.2.1	--	--	--
			01243	00038	DS	C.4.1.2.2	C.4.1.2.1	--	--
			01243	00039	DS	C.4.1.2.2	C.4.1.2.1	--	--
			01243	00040	DS	C.4.1.2.2	--	--	--
			01243	00041	DS	C.4.1.2.2	--	--	--
			01243	00042	DS	C.4.1.2.3	--	--	--
			01243	00043	DS	C.4.1.2.2	--	--	--
			01243	00044	DS	C.4.1.2.3	--	--	--
			01243	00045	DS	C.4.1.5.1	--	--	--
			01243	00046	DS	C.4.1.2.2	C.4.2.1	--	--
			01243	00047	DS	C.4.1.2.2	--	--	--
			01243	00048	DS	C.4.2.2	--	--	--
			01243	00049	DS	C.4.2.2	--	--	--
			01243	00050	DS	C.4.2.2	--	--	--
			01243	00051	DS	C.4.2.2	--	--	--
			01243	00052	DS	C.4.1.2.2	C.4.2.3	--	--
			01243	00053	DS	C.4.2.3	C.7.1.2	--	--
			01243	00054	DS	C.7.1.1.1	--	--	--
			01243	00055	DS	C.7.1.1.1	--	--	--
			01243	00056	DS	C.7.1.1.8	--	--	--
			01243	00057	DS	C.7.1.1.8	--	--	--
			01243	00058	DS	C.7.1.1.7	C.4.2.2	--	--
			01243	00059	DS	C.6.2	C.4.3	--	--
			01243	00060	DS	C.7.2.8	C.4.1.2.3	--	--
			01243	00061	DS	C.7.2.8	C.4.1.2.3	--	--
			01243	00062	DS	C.7.2.1	C.7.2.8	--	--
			01243	00063	DS	C.7.2	--	--	--
			01243	00064	----------	C.2.4.1	--	--	--
			01243	00065	DS	C.7.4.2	--	--	--
			01243	00066	DS	C.7.2	C.7.4.2	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01243	00067	DS	C.7.4.2	--	--	--
			01243	00068	DS	C.7.4.3	--	--	--
			01243	00069	DS	C.5.8	C.4.1.2.2	C.4.1.2.3	--
			01243	00070	DS	C.4.1.2.3	--	--	--
			01243	00071	DS	C.4.1.2.3	--	--	--
			01243	00072	DS	C.5.11	--	--	--
	Meiwes, Patricia		01341	00001	DS	C.7.2.1	--	--	--
			01341	00002	----------	C.2.1.1	--	--	--
	Moore, Jr., George		00055	00001	----------	C.3.4.4	--	--	--
	Moore, Murphy, Ivye J.		00056	00001	----------	C.3.4.4	--	--	--
	Moore, Stafford, Raymond Faye		00180	00001	----------	C.3.4.4	--	--	--
	Moss, Walter		00845	00001	DS	C.4.1.5.2	--	--	--
			00845	00002	DS	C.4.1.5.2	--	--	--
			00845	00003	DS	C.7.4.2	--	--	--
			00845	00004	DS	C.7.4.2	--	--	--
			00845	00005	DS	C.7.4.2	--	--	--
			00845	00006	DS	C.7.4.2	C.5.1	--	--
	Moss, Walter	Texas Seedman's Association	02143	00001	DS	C.4.1.5.2	--	--	--
			02143	00002	DS	C.4.1.5.2	--	--	--
			02143	00003	DS	C.7.4.2	--	--	--
			02143	00004	DS	C.7.4.2	--	--	--
			02143	00005	DS	C.7.4.2	--	--	--
			02143	00006	DS	C.5.1	C.7.4.2	--	--
	Oliver, Bill		00894	00001	DS	C.7.2.8	--	--	--
			00894	00003	----------	C.2.8.1	--	--	--
	Ontiveras, Manuel		00698	00001	----------	C.2.8.2	--	--	--
			00698	00002	----------	C.2.3.1	--	--	--
			00698	00003	----------	C.3.4.4	--	--	--
			00698	00004	----------	C.3.1.2	--	--	--
			00698	00005	DS	C.6.5	C.7.4.2	--	--
			00698	00006	DS	C.7.2.8	--	--	--
			00698	00007	----------	C.3.4.4	--	--	--
	Paganini, Otto		00893	00001	----------	C.2.7	--	--	--
			00893	00002	DS	C.4.3	--	--	--
			00893	00003	DS	C.4.1.2.3	--	--	--
			00893	00004	DS	C.4.1.3.1	C.7.2.1	--	--
			00893	00005	DS	C.4.1.5.2	--	--	--
			00893	00006	----------	C.2.8.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
	Parker, Walker & Nancy		01268	00001	----------	C.3.4.4	--	--	--
			01268	00002	DS	C.7.2.8	C.5.1	--	--
	Paschel, Louis		00867	00001	----------	C.2.4.1	--	--	--
	Paschel, Anthony & Katherine		01161	00001	----------	C.3.4.4	--	--	--
			01161	00002	DS	C.4.1.2.3	--	--	--
			01161	00003	----------	C.2.1.1	--	--	--
			01161	00004	DS	C.7.2.3	C.7.2.8	--	--
			01161	00005	DS	C.7.4.4	--	--	--
			01161	00006	DS	C.7.4.4	--	--	--
			01161	00007	DS	C.4.2.2	--	--	--
			01161	00008	DS	C.4.2.2	--	--	--
			01161	00009	DS	C.7.1.1.1	--	--	--
			01161	00010	DS	C.7.1.1.1	--	--	--
			01161	00011	DS	C.7.1.1.9	--	--	--
			01161	00012	DS	C.5.1	--	--	--
	Paschel, Louis		02161	00001	DS	C.4.1.4	--	--	--
	Petition		01265	00001	DS	C.5.1	--	--	--
			01265	00002	DS	C.4.1.3.3	C.7.2.8	--	--
			01265	00003	DS	C.7.4.2	--	--	--
			01265	00004	----------	C.2.4.1	--	--	--
	Petition		01269	00001	----------	C.3.4.4	--	--	--
			01269	00002	DS	C.7.2.8	C.5.1	--	--
			01269	00003	DS	C.4.1.3.3	C.7.2.8	--	--
			01269	00004	DS	C.7.4.2	--	--	--
			01269	00005	DS	C.4.2.2	--	--	--
			01269	00006	----------	C.2.4.1	--	--	--
	Petition	Lamb County	02163	00001	----------	C.3.1.2	--	--	--
	Phillips, Carthon		00890	00001	DS	C.5.8	C.7.4	C.6.3	--
			00890	00002	DS	C.5.8	--	--	--
			00890	00003	DS	C.7.4	--	--	--
			00890	00004	DS	C.6.3	--	--	--
			00890	00005	DS	C.7.4	C.3.2	--	--
			00890	00006	DS	C.3.2	--	--	--
	Pickering, George W.	Univ. of Texas at Austin	02258	00001A	DS	C.7.4	--	--	--
			02258	00001B	DS	C.7.4.5	--	--	--
			02258	00001C	DS	C.7.4.2	--	--	--
			02258	00002	DS	C.7.4	--	--	--
			02258	00003	DS	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			02258	00004	DS	C.7.4.2	--	--	--
			02258	00005	DS	C.7.4.2	--	--	--
	Pickering, George W.	University of Texas at Austin	01076	00001	----------	C.3.1.2	C.7.4.5	--	--
			01076	00002	DS	C.7.4.2	--	--	--
			01076	00003	DS	C.7.4.2	C.6.5	--	--
	Pickering, George W.		01360	00001	----------	C.2.1.1	--	--	--
			01360	00002	----------	C.2.1.2	--	--	--
			01360	00003	DS	C.7.4	--	--	--
			01360	00004	----------	C.2.1.1	--	--	--
			01360	00005	DS	C.7.4	--	--	--
			01360	00006	DS	C.7.4	--	--	--
			01360	00007	DS	C.7.4	--	--	--
	Reed, James		00882	00001	DS	C.4.1.5	--	--	--
			00882	00002	DS	C.4.1.5.5	--	--	--
			00882	00003	DS	C.4.1.5.5	--	--	--
			00882	00004	DS	C.7.4.1	--	--	--
			00882	00005	DS	C.7.4.1	--	--	--
			00882	00006	DS	C.7.4.1	--	--	--
			00882	00007	DS	C.7.4	--	--	--
			00882	00008	DS	C.7.4	--	--	--
			00882	00009	DS	C.7.4	--	--	--
			00882	00010	DS	C.7.4	--	--	--
	Revell, Tim		00853	00001	DS	C.4.1.5.3	--	--	--
			00853	00002	DS	C.4.2.2	--	--	--
			00853	00003	DS	C.4.2.2	--	--	--
			00853	00004	----------	C.2.1.2	--	--	--
			00853	00005	DS	C.7.4.3	C.7.1.2	--	--
			00853	00006	----------	C.2.4.1	--	--	--
			00853	00007	DS	C.6.5	--	--	--
			00853	00008	DS	C.7.4.3	--	--	--
			00853	00009	DS	C.7.1.2	--	--	--
			00853	00010	----------	C.3.1.1	--	--	--
	Richardson, Wayne		00854	00001	DS	C.4.1.5.2	--	--	--
			00854	00002	DS	C.4.1.5.2	--	--	--
			00854	00003	DS	C.7.4.2	C.4.1.2.3	--	--
			00854	00004	DS	C.4.1.2.3	--	--	--
	Richardson, Trace		00859	00001	DS	C.4.1.3.1	--	--	--
			00859	00002	DS	C.4.1.3.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00859	00003	DS	C.4.2.1	C.7.1.1.1	--	--
			00859	00004	DS	C.7.1.1.1	--	--	--
			00859	00005	DS	C.4.2.3	--	--	--
			00859	00006	DS	C.4.2.3	--	--	--
			00859	00007	DS	C.7.1.1.1	--	--	--
	Richardson, Donald		00860	00001	DS	C.4.1.2.1	--	--	--
			00860	00002	DS	C.4.1.3.3	--	--	--
			00860	00003	DS	C.4.1.2.2	--	--	--
			00860	00004	DS	C.4.1.2.2	--	--	--
			00860	00005	DS	C.4.2.2	--	--	--
			00860	00006	DS	C.4.2.2	--	--	--
			00860	00007	DS	C.4.1.3.1	--	--	--
			00860	00008	DS	C.7.2.2	--	--	--
			00860	00009	DS	C.4.3	C.7.2.1	--	--
			00860	00010	DS	C.4.2.1	--	--	--
			00860	00011	DS	C.4.3	--	--	--
			00860	00012	DS	C.4.1.3.3	--	--	--
			00860	00013	DS	C.4.3	--	--	--
			00860	00014	----------	C.2.1.1	--	--	--
	Richardson, Larry		00862	00001	DS	C.4.1.5.2	--	--	--
			00862	00002	DS	C.4.2.2	C.7.1.1.1	--	--
			00862	00003	DS	C.4.1.5.2	--	--	--
			00862	00004	DS	C.6.5	--	--	--
			00862	00005	DS	C.7.4.2	--	--	--
			00862	00006	DS	C.7.2.8	C.5.1	--	--
			00862	00007	DS	C.4.1.5.2	--	--	--
	Richardson, Monica		00866	00001	DS	C.7.4.3	--	--	--
			00866	00002	DS	C.7.4.1	--	--	--
			00866	00003	DS	C.7.4.2	--	--	--
			00866	00004	DS	C.7.4.2	--	--	--
			00866	00005	DS	C.7.4.2	--	--	--
			00866	00006	DS	C.7.4.2	--	--	--
			00866	00007	DS	C.7.4.4	--	--	--
	Richardson, Wayne		00887	00001	DS	C.4.1.5.2	--	--	--
			00887	00002	DS	C.7.4.2	--	--	--
			00887	00003	DS	C.4.3	--	--	--
			00887	00004	DS	C.4.1.2.3	C.4.1.3.1	--	--
			00887	00005	DS	C.4.1.3.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00887	00006	DS	C.4.1.5.2	--	--	--
			00887	00007	DS	C.4.1.3.1	--	--	--
			00887	00008	DS	C.7.4.3	--	--	--
			00887	00009	DS	C.4.1.5.3	--	--	--
			00887	00010	----------	C.3.1.2	--	--	--
	Richardson, Wayne		02150	00001	DS	C.4.1.5.2	--	--	--
			02150	00002	DS	C.4.1.5.2	--	--	--
			02150	00003	DS	C.4.1.2.3	C.7.4.2	--	--
			02150	00004	DS	C.4.1	--	--	--
	Richardson, Trace		02153	00001	DS	C.4.1.3.1	--	--	--
			02153	00002	DS	C.4.1.3.1	--	--	--
			02153	00003	DS	C.4.2.1	C.7.1.1.1	--	--
			02153	00004	DS	C.7.1.1.1	--	--	--
			02153	00005	DS	C.4.2.3	--	--	--
			02153	00006	DS	C.4.2.3	--	--	--
			02153	00007	DS	C.7.1.1.1	--	--	--
	Richardson, Donald		02154	00001	DS	C.4.1.2.1	--	--	--
			02154	00002	DS	C.4.1.3.3	--	--	--
			02154	00003	DS	C.4.1.2.2	--	--	--
			02154	00004	DS	C.4.1.2.2	--	--	--
			02154	00005	DS	C.4.1.3.1	--	--	--
			02154	00006	DS	C.4.2.2	--	--	--
			02154	00007	DS	C.4.1.3.1	--	--	--
			02154	00008	DS	C.7.2.2	--	--	--
			02154	00009	DS	C.4.3	C.7.2.1	--	--
			02154	00010	DS	C.4.2.1	--	--	--
			02154	00011	DS	C.4.3	--	--	--
			02154	00012	DS	C.4.1.3.3	--	--	--
			02154	00013	DS	C.4.3	--	--	--
			02154	00014	----------	C.2.1.1	--	--	--
	Richardson, Larry		02156	00001	DS	C.4.1.5.2	--	--	--
			02156	00002	DS	C.4.2.2	C.7.1.1.1	--	--
			02156	00003	DS	C.4.1.5.2	--	--	--
			02156	00004	DS	C.6.5	--	--	--
			02156	00005	DS	C.7.4.2	--	--	--
			02156	00006	DS	C.7.2.8	C.5.1	--	--
	Richardson, Monica		02160	00001	DS	C.7.4.5	--	--	--
			02160	00002	DS	C.7.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			02160	00003	DS	C.7.4.2	--	--	--
			02160	00004	DS	C.7.4.2	--	--	--
			02160	00005	DS	C.7.4.2	--	--	--
			02160	00006	DS	C.7.4.2	--	--	--
			02160	00007	DS	C.7.4.4	--	--	--
	Rike, John		00713	00002	DS	C.7.4.2	--	--	--
			00713	00003	DS	C.7.4.2	--	--	--
			00713	00004	DS	C.7.4.2	--	--	--
			00713	00005	----------	C.3.1.2	--	--	--
	Rike,III, John S.	First State Bank	02119	00001	DS	C.7.4.2	--	--	--
			02119	00002	DS	C.7.4.2	--	--	--
			02119	00003	----------	C.3.1.2	--	--	--
	Riley, Barbara L.		00008	00001	DS	C.7.2	--	--	--
			00008	00002	DS	C.7.4	--	--	--
			00008	00003	----------	C.3.4.4	--	--	--
	Schermbeck, Jim		00883	00001	----------	C.3.4.4	--	--	--
			00883	00002	----------	C.2.8.1	--	--	--
	Schoenenberger, Margaret		00278	00001	----------	C.3.4.4	--	--	--
			00278	00002	DS	C.7.4	--	--	--
			00278	00003A	DS	C.4.1.3.3	--	--	--
			00278	00003B	DS	C.4.1.3.5	--	--	--
			00278	00004	----------	C.2.8.2	--	--	--
	Shults, Regina		00896	00001	----------	C.2.8.1	--	--	--
	Southard, E.		01267	00001	----------	C.3.1.2	--	--	--
	Stanford, Geoffrey		00881	00001	DS	C.5.10	--	--	--
			00881	00002	----------	C.2.8.1	--	--	--
			00881	00003	----------	C.2.5.2	--	--	--
	Staniswalis, Chip		02133	00001	----------	C.2.1.1	--	--	--
			02133	00002	----------	C.3.4.4	--	--	--
			02133	00003	----------	C.3.4.4	--	--	--
			02133	00004	----------	C.3.4.4	--	--	--
			02133	00005	----------	C.2.1.1	--	--	--
			02133	00006	----------	C.3.4.3	--	--	--
			02133	00007	----------	C.2.3.3	--	--	--
			02133	00008	----------	C.3.1.1	--	--	--
			02133	00009	----------	C.2.4.3	--	--	--
	Steiert, Jim		00872	00001	DS	C.7.2.8	C.7.2.1	--	--
			00872	00002	DS	C.5.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			00872	00003	DS	C.7.2.1	--	--	--
	Steiert, Jim		02162	00001	DS	C.7.2.1	C.7.2.8	--	--
			02162	00002	DS	C.5.1	--	--	--
			02162	00003	DS	C.7.2.1	--	--	--
	Taylor, Nancy		00374	00001	DS	C.7.4	--	--	--
			00374	00002	----------	C.3.4.4	--	--	--
			00374	00003	DS	C.5.1	--	--	--
	Taylor, Roy and Evelyn		00493	00001	DC	C.7.1.1.8	--	--	--
			00493	00002	DC	C.4.2.2	C.4.3	--	--
			00493	00003	DC	C.7.1.1.8	--	--	--
			00493	00004	DS	C.4.3	--	--	--
			00493	00005	DS	C.7.3	--	--	--
			00493	00006	DS	C.5.10	--	--	--
			00493	00007	----------	C.2.3.3	--	--	--
			00493	00008	DS	C.4.1.3.3	--	--	--
			00493	00009	DS	C.7.1.2	C.7.4	--	--
			00493	00010	DS	C.6.2	--	--	--
			00493	00011	----------	C.2.1.1	--	--	--
			00493	00012	DS	C.4.1.3.1	--	--	--
			00493	00013	----------	C.3.1.1	--	--	--
			00493	00014	----------	C.3.1.2	--	--	--
	Thomas-Williams, Colonel Robert		00858	00001	----------	C.2.3.1	--	--	--
			00858	00002	----------	C.3.1.2	--	--	--
			00858	00003	DS	C.4.3	--	--	--
			00858	00004	DS	C.7.2.1	--	--	--
			00858	00005	DS	C.7.2.1	--	--	--
			00858	00006	DS	C.5.8	--	--	--
			00858	00007	DS	C.4.1.1.6	--	--	--
			00858	00008	DS	C.5.8	--	--	--
			00858	00009A	DS	C.4.1.2.2	--	--	--
			00858	00009B	DS	C.4.1.1.5	--	--	--
			00858	00010	DS	C.5.11	--	--	--
			00858	00011	DS	C.6.4	--	--	--
			00858	00012	DS	C.5.11	--	--	--
			00858	00013	DS	C.5.8	--	--	--
			00858	00014	DS	C.4.3	--	--	--
			00858	00015	----------	C.2.4.1	--	--	--
	Thomas-Williams, Colonel Robert		01367	00001	----------	C.2.8.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			01367	00002	----------	C.2.4.1	--	--	--
			01367	00003	DS	C.7.2.1	--	--	--
			01367	00004	----------	C.3.1.2	--	--	--
			01367	00005	----------	C.3.2	--	--	--
			01367	00006	DS	C.4.3	--	--	--
			01367	00007	DS	C.7.1	--	--	--
			01367	00008	DS	C.4.3	--	--	--
			01367	00009	----------	C.2.8.3	--	--	--
			01367	00010	----------	C.2.8.3	--	--	--
			01367	00011	----------	C.2.8	--	--	--
			01367	00012	----------	C.2.4.1	--	--	--
			01367	00013	----------	C.2.4.1	--	--	--
			01367	00014	----------	C.2.4.1	--	--	--
			01367	00015	----------	C.2.8.2	--	--	--
			01367	00016	----------	C.2.8.2	--	--	--
			01367	00017	----------	C.2.8.2	--	--	--
	Tooley, Wendell		00707	00001	----------	C.3.4.4	--	--	--
			00707	00002	DS	C.7.4.2	--	--	--
			00707	00003	----------	C.3.1.2	--	--	--
			00707	00004	DS	C.7.4.2	--	--	--
	Tooley, Wendell	The Tulia Herald	02132	00001	----------	C.3.4.4	--	--	--
			02132	00002	DS	C.7.4.2	--	--	--
			02132	00003	----------	C.3.4.4	--	--	--
			02132	00004	DS	C.7.4.2	--	--	--
			02132	00005	----------	C.3.1.2	--	--	--
	Vines, Theresa		00377	00001	DS	C.7.4	--	--	--
			00377	00002	----------	C.3.4.4	--	--	--
			00377	00003	DS	C.5.1	--	--	--
	Wallace, Dr. Wes		00891	00001	----------	C.2.8.1	--	--	--
			00891	00004	----------	C.2.1.1	--	--	--
	Wenzler, Michael		00719	00001	DS	C.6.5	--	--	--
			00719	00002	DS	C.6.5	--	--	--
			00719	00003A	----------	C.7.3	--	--	--
			00719	00003B	----------	C.7.3	--	--	--
			00719	00004	DS	C.7.3	--	--	--
			00719	00006	DS	C.6.5	--	--	--
			00719	00008	----------	C.2.5.2	--	--	--
	Wenzler, Michael		02167	00001	DS	C.6.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
			02167	00002	DS	C.7.3	--	--	--
			02167	00003	DS	C.4.3	--	--	--
			02167	00004	DS	C.6.5	--	--	--
			02167	00005	----------	C.2.5.2	--	--	--
			02167	00006	----------	C.2.8.2	--	--	--
			02677	00001	DS	--	--	--	--
	White, Governor Mark		00879	00001	----------	C.2.1.1	C.3.1.1	--	--
			00879	00002	DS	C.3.1.3	C.4.1.3.1	--	--
			00879	00003	----------	C.2.1.1	--	--	--
			00879	00004	DS	C.5.1	C.4.1.2.2	--	--
			00879	00005	DS	C.4.2.2	--	--	--
			00879	00006	DS	C.4.2.2	C.4.3	C.7.2	--
			00879	00007	DS	C.7.4.2	--	--	--
			00879	00008	DS	C.7.2	--	--	--
			00879	00009	DS	C.4.1.5	--	--	--
			00879	00010	----------	C.3.4.3	--	--	--
			00879	00011	----------	C.2.3.2	--	--	--
			00879	00012	----------	C.3.1.2	--	--	--
	Whitson, Hollis		00711	00001	DS	C.4.1	--	--	--
			00711	00002	DS	C.7.2	--	--	--
			00711	00003	----------	C.3.4.4	--	--	--
			00711	00006	DS	C.7.2.8	C.7.1.1.8	--	--
			00711	00007	----------	C.3.4.4	--	--	--
	Whitson, Hollis		00871	00001	DS	C.7.4	--	--	--
			00871	00002	DS	C.7.4	--	--	--
			00871	00003	DS	C.7.4.2	--	--	--
			00871	00004	DS	C.7.4.2	--	--	--
			00871	00005	DS	C.7.4.2	--	--	--
			00871	00006	DS	C.7.4	--	--	--
			00871	00007	DS	C.7.4	--	--	--
			00871	00008	DS	C.7.4	--	--	--
			00871	00009	DS	C.7.1.2	--	--	--
	Whitson, Hollis		00886	00001	DS	C.7.1.2	--	--	--
			00886	00002	----------	C.2.3.2	--	--	--
			00886	00003	----------	C.3.1.2	--	--	--
			00886	00004	----------	C.3.1.2	--	--	--
			00886	00005	DS	C.7.4.1	--	--	--
	Williams, Lawana		00195	00002	DS	C.5.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Texas (continued)									
	Witkowski, Les		00855	00001	DS	C.5.1	--	--	--
			00855	00002	DS	C.4.3	--	--	--
			00855	00003	DS	C.4.1.3.3	--	--	--
			00855	00004	DS	C.4.1.5.2	--	--	--
	Witkowski, Leo		02149	00001	DS	C.5.1	--	--	--
			02149	00002	DS	C.4.3	--	--	--
			02149	00003	DS	C.4.1.3.3	--	--	--
			02149	00004	DS	C.4.1	--	--	--
	Witkowski, Leo		02151	00001	----------	C.5.1	--	--	--
			02151	00002	----------	C.4.3	--	--	--
			02151	00003	----------	C.4.1.3.3	--	--	--
			02151	00004	----------	C.3.1.2	--	--	--
	Womack, Tommy		00714	00001	DS	C.5.1	C.7.2.8	--	--
			00714	00002	----------	C.2.8.1	C.7.4.2	--	--
			00714	00003	DS	C.7.4.2	--	--	--
	Woods, Becky		00712	00001	----------	C.2.1.1	--	--	--
			00712	00003	----------	C.3.4.4	--	--	--
	Wyatt, Wayne		00693	00001	----------	C.2.1.1	--	--	--
			00693	00002	----------	C.2.7	--	--	--
			00693	00003	DS	C.4.1.2.2	--	--	--
			00693	00004	DS	C.4.1.2.2	--	--	--
			00693	00005	DS	C.4.1.2.2	--	--	--
			00693	00006	DS	C.4.3	--	--	--
			00693	00007	DS	C.4.1.1.6	--	--	--
			00693	00008	DS	C.4.1.2.2	--	--	--
			00693	00009	DS	C.4.1.2.2	C.4.1.1.6	--	--
	Wyatt, A. Wayne		02612	00001	DS	C.5.6	--	--	--
			02612	00002	DS	C.5.6	--	--	--
Utah									
		State of Utah	02712	00001	DC	C.4.2.3	C.7.2.3	--	--
	Adams, Lisle		00921	00001	----------	C.3.4.4	--	--	--
			00921	00002	----------	C.3.4.4	--	--	--
	Adams, Bruce B.	Petition	00015	00001	----------	C.3.4.4	--	--	--
	Adams, Lisle	Gibson Dome Oversight Committee	02179	00001	----------	C.3.4.4	--	--	--
			02179	00002	----------	C.3.4.4	--	--	--
	Aide, Mitch		00815	00001	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Anderson, Lyle		00927	00001	----------	C.3.4.3	--	--	--
			00927	00002	DC	C.7.3	--	--	--
			00927	00003	DC	C.7.4.3	--	--	--
	Anderson, Lyle R.		02184	00001	----------	C.3.1.2	--	--	--
			02184	00002	----------	C.2.1.1	--	--	--
			02184	00004	----------	C.3.4.3	--	--	--
			02184	00005	----------	C.3.1.1	--	--	--
			02184	00006	DC	C.7.4.3	--	--	--
	Anonymous		02221	00001	----------	C.4.1.1.3	--	--	--
			02221	00002	----------	C.3.4.4	--	--	--
	Anonymous		02222	00001	DC	C.5.11	--	--	--
			02222	00002	DC	C.5.5	--	--	--
			02222	00003	DC	C.5.7	--	--	--
			02222	00004	----------	C.5.1	--	--	--
			02222	00005	DC	C.5.1	--	--	--
			02222	00006	----------	C.2.8.1	--	--	--
			02222	00007	DC	C.5.8	--	--	--
			02222	00008	DC	C.5.5	C.5.11	C.5.7	--
			02222	00009	----------	C.2.2	C.5.1	--	--
	Anonymous		02223	00001	----------	C.3.1.2	--	--	--
			02223	00002	----------	C.3.1.2	--	--	--
			02223	00003	DC	C.4.1.3.4	C.7.1.1.5	C.7.2.5	--
			02223	00004	DC	C.7.2	--	--	--
			02223	00005	DC	C.7.4	C.4.1.5	--	--
			02223	00006	DC	C.4.1.5	--	--	--
		City of Monticello	02187	00001	----------	C.3.4.3	--	--	--
			02187	00002	----------	C.6.3	C.4.1.3.3	--	--
			02187	00003	----------	C.3.4.2.2	--	--	--
			02187	00004	----------	C.3.4.2.2	--	--	--
			02187	00005	DC	C.7.4	C.4.1.5	--	--
			02187	00006	----------	C.3.4.2	--	--	--
			02187	00007	DC	C.7.4	--	--	--
			02187	00008	DC	C.4.1.5.1	--	--	--
		Robert Frost School	02213	00001	----------	C.3.1.2	--	--	--
			02213	00002	----------	C.2.8.2	--	--	--
			02213	00003	----------	C.2.8.2	--	--	--
	Archuleta, Letitia		02216	00001	----------	C.7.2	--	--	--
			02216	00002	----------	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Archuleta, Letitia		00798	00001	----------	C.3.1.2	--	--	--
			00798	00002	DC	C.3.1.2	C.3.1.3	--	--
	Arnold, Thomas		00749	00001	----------	C.2.1.1	--	--	--
			00749	00002	DC	C.7.4.2	--	--	--
	Baer, T. John		00735	00001	DC	C.7.4.3	--	--	--
			00735	00002	DC	C.7.4.3	C.4.1.5.3	--	--
			00735	00003	DC	C.7.4	--	--	--
			00735	00004	----------	C.2.4.1	--	--	--
			00735	00005	DC	C.7.4	--	--	--
	Balcom, Julia		00833	00001	DC	C.7.2.4	--	--	--
			00833	00002	DC	C.7.2.4	--	--	--
			00833	00003	DC	C.7.1.1.4	--	--	--
			00833	00004	DC	C.7.1.1.4	--	--	--
			00833	00005	DC	C.7.1.1.3	--	--	--
			00833	00006	DC	C.7.1.1.3	--	--	--
			00833	00007	DC	C.7.1.1.6	--	--	--
			00833	00008	DC	C.7.4.2	--	--	--
			00833	00009	DC	C.7.2.8	--	--	--
			00833	00010	DC	C.7.2.8	--	--	--
			00833	00011	----------	C.2.1.1	--	--	--
	Balling, Kurt		00737	00001	----------	C.3.4.4	--	--	--
			00737	00002	DC	C.7.4.2	--	--	--
			00737	00003	----------	C.2.4.1	--	--	--
		State of Utah	00737	00004	DC	C.2.4.2	--	--	--
	Bangerter, Governor Norman		00750	00001	----------	C.2.1.1	--	--	--
			00750	00002	----------	C.2.1.1	--	--	--
			00750	00003	----------	C.2.5.1	--	--	--
			00750	00004	----------	C.2.3.3	--	--	--
			00750	00005	----------	C.3.1.2	--	--	--
			00750	00006	DC	C.4.1.1.1	--	--	--
			00750	00007	DC	C.4.1.2.2	--	--	--
			00750	00008	DC	C.7.3	--	--	--
			00750	00009	DC	C.7.3	--	--	--
			00750	00010	DC	C.7.2.6	--	--	--
			00750	00011	DC	C.7.4.3	--	--	--
			00750	00012	DC	C.7.1.2	--	--	--
			00750	00013	----------	C.3.4.3	--	--	--
	Bangerter, Governor Norman H.	State of Utah	02188	00001	----------	C.2.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02188	00002	----------	C.2.1.1	--	--	--
			02188	00003	----------	C.2.5.1	--	--	--
			02188	00004	----------	C.2.3.3	--	--	--
			02188	00005	----------	C.3.1.2	--	--	--
			02188	00006	DC	C.4.1.1.1	--	--	--
			02188	00007	DC	C.4.1.2.2	--	--	--
			02188	00008	DC	C.7.3	--	--	--
			02188	00009	DC	C.7.3	--	--	--
			02188	00010	DC	C.7.2.6	--	--	--
			02188	00011	DC	C.7.4.3	--	--	--
			02188	00012	DC	C.7.1.2	--	--	--
			02188	00013	----------	C.3.4.3	--	--	--
	Bangerter, Governor Norman H.		01392	00001	DC	C.7.4.1	C.4.1	--	--
			01392	00002	DC	C.4.1.3.1	C.7.4.1	--	--
			01392	00003	----------	C.2.7	--	--	--
			01392	00004	DC	C.4.1.2.3	--	--	--
			01392	00005	DC	C.4.1.5.2	C.4.1.5.1	--	--
			01392	00006	DC	C.7.1	C.4.2.1	--	--
			01392	00007	DC	C.7.1.1	C.4.2	--	--
			01392	00008	DC	C.2.7	--	--	--
			01392	00009	DC	C.7.1.1.3	--	--	--
			01392	00010	DC	C.7.1.1.3	--	--	--
			01392	00011	DC	C.7.1.1.4	--	--	--
			01392	00012	DC	C.7.1.2	--	--	--
			01392	00013	DC	C.7.1.1	C.7.1.2	--	--
			01392	00014	DC	C.7.1.2	--	--	--
			01392	00015	DC	C.7.1.2	--	--	--
			01392	00016	DC	C.7.1.1.6	--	--	--
			01392	00017	DC	C.7.3	C.7.2.1	--	--
			01392	00018	DC	C.7.3	C.7.2.2	--	--
			01392	00019	DC	C.7.2.3	--	--	--
			01392	00020	DC	C.7.2.4	--	--	--
			01392	00021	DC	C.7.2.5	--	--	--
			01392	00022	DC	C.7.2.3	C.7.4	--	--
			01392	00023	DC	C.7.4	--	--	--
			01392	00024	DC	C.7.4.2	--	--	--
			01392	00025	DC	C.7.4.5	--	--	--
			01392	00026	DC	C.7.4	C.7.1.2	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00027	DC	C.7.4	--	--	--
			01392	00028	DC	C.7.3	--	--	--
			01392	00029	DC	C.6.3	--	--	--
			01392	00030	DC	C.7.4	C.7.5	--	--
			01392	00031	DC	C.6.5	C.7.5	--	--
			01392	00032	----------	C.3.1.2	--	--	--
			01392	00033	----------	C.3.1.2	--	--	--
			01392	00034	----------	C.3.1.2	--	--	--
			01392	00035	DC	C.3.1.3	--	--	--
			01392	00036	DC	C.3.2	--	--	--
			01392	00037	DC	C.3.3	--	--	--
			01392	00038	DC	C.7.4.1	--	--	--
			01392	00039	DC	C.6.2	--	--	--
			01392	00040	DC	C.3.3	--	--	--
			01392	00041	DC	C.3.3	--	--	--
			01392	00042	DC	C.3.3	--	--	--
			01392	00043	DC	C.3.3	--	--	--
			01392	00044	DC	C.4.1.5.2	--	--	--
			01392	00045	DC	C.4.1.5	--	--	--
			01392	00046	DC	C.4.1.3.6	--	--	--
			01392	00047	DC	C.4.1.4	--	--	--
			01392	00048	DC	C.4.1.1	--	--	--
			01392	00049	DC	C.4.1.1.2	--	--	--
			01392	00050	DC	C.4.1.1.2	--	--	--
			01392	00051	DC	C.4.1.1.3	--	--	--
			01392	00052	DC	C.4.1.1.3	--	--	--
			01392	00053	DC	C.4.1.1.3	--	--	--
			01392	00054	DC	C.4.1.1.3	--	--	--
			01392	00055	DC	C.4.1.1.3	--	--	--
			01392	00056	DC	C.4.1.1.3	--	--	--
			01392	00057	DC	C.4.1.1.3	--	--	--
			01392	00058	DC	C.4.1.1.3	--	--	--
			01392	00059	DC	C.4.1.1.3	--	--	--
			01392	00060	DC	C.4.1.1.3	--	--	--
			01392	00061	DC	C.4.1.1.3	--	--	--
			01392	00062	DC	C.4.1.1.5	--	--	--
			01392	00063	DC	C.4.1.1.5	--	--	--
			01392	00064	DC	C.4.1.1.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00065	DC	C.4.1.1.5	--	--	--
			01392	00066	DC	C.4.1.1.5	--	--	--
			01392	00067	DC	C.4.1.1.6	--	--	--
			01392	00068	DC	C.4.1.1.6	--	--	--
			01392	00069	DC	C.4.1.1.6	--	--	--
			01392	00070	DC	C.4.1.1.6	--	--	--
			01392	00071	DC	C.4.1.1.6	--	--	--
			01392	00072	DC	C.4.1.1.7	--	--	--
			01392	00073	DC	C.4.1.1.7	--	--	--
			01392	00074	DC	C.4.1.1.7	--	--	--
			01392	00075	DC	C.4.1.1.7	--	--	--
			01392	00076	DC	C.4.1.1.7	--	--	--
			01392	00077	DC	C.4.1.1.7	--	--	--
			01392	00078	DC	C.4.1.1.6	--	--	--
			01392	00079	DC	C.4.1.1.6	--	--	--
			01392	00080	DC	C.4.1.1.8	--	--	--
			01392	00081	DC	C.4.1.1.8	--	--	--
			01392	00082	DC	C.4.1.1.8	--	--	--
			01392	00083	DC	C.4.1.1.8	--	--	--
			01392	00084	DC	C.4.1.1.8	--	--	--
			01392	00085	DC	C.4.1.1.8	--	--	--
			01392	00086	DC	C.8.2	--	--	--
			01392	00087	DC	C.4.1.1.8	--	--	--
			01392	00088	DC	C.4.1.1.9	--	--	--
			01392	00089	DC	C.4.1.1.9	--	--	--
			01392	00090	DC	C.4.1.1.9	--	--	--
			01392	00091	DC	C.4.1.1.9	--	--	--
			01392	00092	DC	C.4.1.1.9	--	--	--
			01392	00093	DC	C.4.1.1.9	--	--	--
			01392	00094	DC	C.4.1.1.9	--	--	--
			01392	00095	DC	C.4.1.1.9	--	--	--
			01392	00096	DC	C.4.1.1.9	--	--	--
			01392	00097	DC	C.4.1.2.1	--	--	--
			01392	00098	DC	C.4.1.2.1	--	--	--
			01392	00099	DC	C.4.1.2.1	--	--	--
			01392	00100	DC	C.4.1.2.1	--	--	--
			01392	00101	DC	C.4.1.2.1	--	--	--
			01392	00102	DC	C.4.1.2.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00103	DC	C.4.1.2.1	--	--	--
			01392	00104	DC	C.4.1.2.1	--	--	--
			01392	00105	DC	C.4.1.2.1	--	--	--
			01392	00106	DC	C.4.1.2.1	--	--	--
			01392	00107	DC	C.4.1.2.1	--	--	--
			01392	00108	DC	C.4.1.2.1	--	--	--
			01392	00109	DC	C.4.1.2.1	--	--	--
			01392	00110	DC	C.4.1.2.1	--	--	--
			01392	00111	DC	C.4.1.2.1	--	--	--
			01392	00112	DC	C.4.1.2.1	--	--	--
			01392	00113	DC	C.4.1.2.2	--	--	--
			01392	00114	DC	C.4.1.2.2	--	--	--
			01392	00115	DC	C.4.1.2.2	--	--	--
			01392	00116	DC	C.4.1.2.2	--	--	--
			01392	00117	DC	C.4.1.2.2	--	--	--
			01392	00118	DC	C.4.1.2.2	--	--	--
			01392	00119	DC	C.4.1.3.1	--	--	--
			01392	00120	DC	C.4.1.3.1	--	--	--
			01392	00121	DC	C.4.1.3.1	--	--	--
			01392	00122	DC	C.4.1.3.1	--	--	--
			01392	00123	DC	C.4.1.3.1	--	--	--
			01392	00124	DC	C.4.1.3.1	--	--	--
			01392	00125	DC	C.4.1.3.1	--	--	--
			01392	00126	DC	C.4.1.3.1	--	--	--
			01392	00127	DC	C.4.1.3.1	--	--	--
			01392	00128	DC	C.4.1.3.1	--	--	--
			01392	00129	DC	C.4.1.5	--	--	--
			01392	00130	DC	C.4.1.3.1	--	--	--
			01392	00131	DC	C.7.3	--	--	--
			01392	00132	DC	C.4.1.3.1	--	--	--
			01392	00133	DC	C.4.1.3.1	--	--	--
			01392	00134	DC	C.4.1.3.1	--	--	--
			01392	00135	DC	C.4.1.3.1	--	--	--
			01392	00136	DC	C.4.1.3.2	--	--	--
			01392	00137	DC	C.4.1.3.2	--	--	--
			01392	00138	DC	C.4.1.3.2	--	--	--
			01392	00139	DC	C.4.1.3.2	--	--	--
			01392	00140	DC	C.4.1.3.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00141	DC	C.4.1.3.2	--	--	--
			01392	00142	DC	C.4.1.3.2	--	--	--
			01392	00143	DC	C.4.1.3.2	--	--	--
			01392	00144	DC	C.4.1.3.3	--	--	--
			01392	00145	DC	C.4.1.3.3	--	--	--
			01392	00146	DC	C.4.1.3.3	--	--	--
			01392	00147	DC	C.4.1.3.3	--	--	--
			01392	00148	DC	C.4.1.3.3	--	--	--
			01392	00149	DC	C.4.1.3.3	--	--	--
			01392	00150	DC	C.4.1.3.4	--	--	--
			01392	00151	DC	C.4.1.3.4	--	--	--
			01392	00152	DC	C.4.1.3.4	--	--	--
			01392	00153	DC	C.4.1.3.5	--	--	--
			01392	00154	DC	C.4.1.3.5	--	--	--
			01392	00155	DC	C.4.1.3.6	--	--	--
			01392	00156	DC	C.4.1.3.6	--	--	--
			01392	00157	DC	C.4.1.3.6	--	--	--
			01392	00158	DC	C.4.1.3.6	--	--	--
			01392	00159	DC	C.4.1.3.7	--	--	--
			01392	00160	DC	C.4.1.4	--	--	--
			01392	00161	DC	C.4.1.4	--	--	--
			01392	00162	DC	C.4.1.4	--	--	--
			01392	00163	DC	C.4.1.4	--	--	--
			01392	00164	DC	C.4.1.4	--	--	--
			01392	00165	DC	C.4.1.4	--	--	--
			01392	00166	DC	C.4.1.4	--	--	--
			01392	00167	DC	C.4.1.4	--	--	--
			01392	00168	DC	C.4.1.4	--	--	--
			01392	00169	DC	C.4.1.4	--	--	--
			01392	00170	DC	C.4.1.4	--	--	--
			01392	00171	DC	C.4.1.5	--	--	--
			01392	00172	DC	C.4.1.5	--	--	--
			01392	00173	DC	C.4.1.5.1	--	--	--
			01392	00174	DC	C.4.1.5.1	--	--	--
			01392	00175	DC	C.4.1.5.1	--	--	--
			01392	00176	DC	C.4.1.5.1	--	--	--
			01392	00177	DC	C.4.1.5.1	--	--	--
			01392	00178	DC	C.4.1.5.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00179	DC	C.4.1.5.1	--	--	--
			01392	00180	DC	C.4.1.5.1	--	--	--
			01392	00181	DC	C.4.1.5.1	--	--	--
			01392	00182	DC	C.4.1.5.1	--	--	--
			01392	00183	DC	C.4.1.5.1	--	--	--
			01392	00184	DC	C.4.1.5.1	--	--	--
			01392	00185	DC	C.4.1.5.1	--	--	--
			01392	00186	DC	C.4.1.5.2	--	--	--
			01392	00187	DC	C.4.1.5.2	--	--	--
			01392	00188	DC	C.4.1.5.2	--	--	--
			01392	00189	DC	C.4.1.5.2	--	--	--
			01392	00190	DC	C.4.1.5.2	--	--	--
			01392	00191	DC	C.4.1.5.2	--	--	--
			01392	00192	DC	C.4.1.5.2	--	--	--
			01392	00193	DC	C.4.1.5.2	--	--	--
			01392	00194	DC	C.4.1.5.2	--	--	--
			01392	00195	DC	C.4.1.5.2	--	--	--
			01392	00196	DC	C.4.1.5.2	--	--	--
			01392	00197	DC	C.4.1.5.2	--	--	--
			01392	00198	DC	C.4.1.5.2	--	--	--
			01392	00199	DC	C.4.1.5.2	--	--	--
			01392	00200	DC	C.4.1.5.2	--	--	--
			01392	00201	DC	C.4.1.5.2	--	--	--
			01392	00202	DC	C.4.1.5.3	--	--	--
			01392	00203	DC	C.4.1.5.3	--	--	--
			01392	00204	DC	C.4.1.5.3	--	--	--
			01392	00205	DC	C.4.1.5.3	--	--	--
			01392	00206	DC	C.4.1.5.3	--	--	--
			01392	00207	DC	C.4.1.5.3	--	--	--
			01392	00208	DC	C.4.1.5.3	--	--	--
			01392	00209	DC	C.4.1.5.3	--	--	--
			01392	00210	DC	C.4.1.5.3	--	--	--
			01392	00211	DC	C.4.1.5.3	--	--	--
			01392	00212	DC	C.4.1.5.3	--	--	--
			01392	00213	DC	C.4.1.5.3	--	--	--
			01392	00214	DC	C.4.1.5.3	--	--	--
			01392	00215	DC	C.4.1.5.3	--	--	--
			01392	00216	DC	C.4.1.5.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00217	DC	C.4.1.5.3	--	--	--
			01392	00218	DC	C.4.1.5.3	--	--	--
			01392	00219	DC	C.4.1.5.3	--	--	--
			01392	00220	DC	C.4.1.5.3	--	--	--
			01392	00221	DC	C.4.1.5.3	--	--	--
			01392	00222	DC	C.4.1.5.4	--	--	--
			01392	00223	DC	C.4.1.5.4	--	--	--
			01392	00224	DC	C.4.1.5.4	--	--	--
			01392	00225	DC	C.4.1.5.5	--	--	--
			01392	00226	DC	C.4.1.5.5	--	--	--
			01392	00227	DC	C.4.1.5.5	--	--	--
			01392	00228	DC	C.4.1.5.5	--	--	--
			01392	00229	DC	C.4.1.5.5	--	--	--
			01392	00230	DC	C.4.1.5.5	--	--	--
			01392	00231	DC	C.6.2	--	--	--
			01392	00232	DC	C.7.2.1	--	--	--
			01392	00233	DC	C.7.1.1.1	--	--	--
			01392	00234	DC	C.4.2.1	--	--	--
			01392	00235	DC	C.4.2.1	--	--	--
			01392	00236	DC	C.4.2.1	--	--	--
			01392	00237	DC	C.7.1.1	--	--	--
			01392	00238	DC	C.7.3	--	--	--
			01392	00239	DC	C.7.1.1	--	--	--
			01392	00240	DC	C.7.1.1	--	--	--
			01392	00241	DC	C.7.1.1	--	--	--
			01392	00242	DC	C.4.2.1	--	--	--
			01392	00243	DC	C.7.1.1	--	--	--
			01392	00244	DC	C.4.2.1	--	--	--
			01392	00245	DC	C.7.1.1	--	--	--
			01392	00246	DC	C.4.2.1	--	--	--
			01392	00247	DC	C.4.2.1	--	--	--
			01392	00248	DC	C.4.2.1	--	--	--
			01392	00249	DC	C.7.1.1.1	--	--	--
			01392	00250	DC	C.4.2.1	--	--	--
			01392	00251	DC	C.4.2.1	--	--	--
			01392	00252	DC	C.4.2.1	--	--	--
			01392	00253	DC	C.4.2.1	--	--	--
			01392	00254	DC	C.4.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00255	DC	C.4.2.2	--	--	--
			01392	00256	DC	C.4.2.2	--	--	--
			01392	00257	DC	C.4.2.2	--	--	--
			01392	00258	DC	C.4.2.2	--	--	--
			01392	00259	DC	C.4.2.2	--	--	--
			01392	00260	DC	C.4.2.2	--	--	--
			01392	00261	DC	C.7.1.1	--	--	--
			01392	00262	DC	C.4.2.2	--	--	--
			01392	00263	DC	C.4.2.2	--	--	--
			01392	00264	DC	C.4.2.2	--	--	--
			01392	00265	DC	C.4.2.2	--	--	--
			01392	00266	DC	C.4.2.2	--	--	--
			01392	00267	DC	C.4.2.2	--	--	--
			01392	00268	DC	C.4.2.2	--	--	--
			01392	00269	DC	C.4.2.2	--	--	--
			01392	00270	DC	C.4.2.2	--	--	--
			01392	00271	DC	C.4.2.2	--	--	--
			01392	00272	DC	C.4.2.2	--	--	--
			01392	00273	DC	C.4.2.2	--	--	--
			01392	00274	DC	C.4.2.2	--	--	--
			01392	00275	DC	C.4.2.2	--	--	--
			01392	00276	DC	C.4.2.2	--	--	--
			01392	00277	DC	C.4.2.2	--	--	--
			01392	00278	DC	C.4.2.2	--	--	--
			01392	00279	DC	C.4.2.2	--	--	--
			01392	00280	DC	C.4.2.2	--	--	--
			01392	00281	DC	C.4.2.2	--	--	--
			01392	00282	DC	C.4.2.2	--	--	--
			01392	00283	DC	C.4.2.2	--	--	--
			01392	00284	DC	C.4.2.2	--	--	--
			01392	00285	DC	C.4.2.2	--	--	--
			01392	00286	DC	C.4.2.2	--	--	--
			01392	00287	DC	C.7.1.1	--	--	--
			01392	00288	DC	C.4.2.2	--	--	--
			01392	00289	DC	C.7.1.1	--	--	--
			01392	00290	DC	C.7.1.1	--	--	--
			01392	00291	DC	C.7.1.1	--	--	--
			01392	00292	DC	C.4.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00293	DC	C.4.2.2	--	--	--
			01392	00294	DC	C.4.2.2	--	--	--
			01392	00295	DC	C.4.2.2	--	--	--
			01392	00296	DC	C.7.1.1	--	--	--
			01392	00297	DC	C.4.2.3	--	--	--
			01392	00298	DC	C.4.2.3	--	--	--
			01392	00299	DC	C.4.2.3	--	--	--
			01392	00300	DC	C.4.2.3	--	--	--
			01392	00301	DC	C.4.2.3	--	--	--
			01392	00302	DC	C.4.2.3	--	--	--
			01392	00303	DC	C.4.2.3	--	--	--
			01392	00304	DC	C.4.2.3	--	--	--
			01392	00305	DC	C.4.2.3	--	--	--
			01392	00306	DC	C.4.2.3	--	--	--
			01392	00307	DC	C.4.2.3	--	--	--
			01392	00308	DC	C.4.2.3	--	--	--
			01392	00309	DC	C.4.2.3	--	--	--
			01392	00310	DC	C.4.2.3	--	--	--
			01392	00311	DC	C.4.2.3	--	--	--
			01392	00312	DC	C.4.2.3	--	--	--
			01392	00313	DC	C.4.2.3	--	--	--
			01392	00314	DC	C.4.2.3	--	--	--
			01392	00315	DC	C.7.1.1	--	--	--
			01392	00316	DC	C.7.1.1	--	--	--
			01392	00317	DC	C.7.1.1.1	--	--	--
			01392	00318	DC	C.7.1.1.1	--	--	--
			01392	00319	DC	C.7.1.1.1	--	--	--
			01392	00320	DC	C.7.1.1.1	--	--	--
			01392	00321	DC	C.7.1.1.1	--	--	--
			01392	00322	DC	C.7.1.1.1	--	--	--
			01392	00323	DC	C.7.1.1.1	--	--	--
			01392	00324	DC	C.7.1.1.1	--	--	--
			01392	00325	DC	C.7.1.1.1	--	--	--
			01392	00326	DC	C.7.1.1.2	--	--	--
			01392	00327	DC	C.7.1.1.2	--	--	--
			01392	00328	DC	C.7.1.1.2	--	--	--
			01392	00329	DC	C.7.1.1.2	--	--	--
			01392	00330	DC	C.7.1.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00331	DC	C.7.1.1.2	--	--	--
			01392	00332	DC	C.7.1.1.2	--	--	--
			01392	00333	DC	C.7.1.1.2	--	--	--
			01392	00334	DC	C.7.1.1.2	--	--	--
			01392	00335	DC	C.7.1.1.2	--	--	--
			01392	00336	DC	C.7.1.1.2	--	--	--
			01392	00337	DC	C.7.1.1.3	--	--	--
			01392	00338	DC	C.7.1.1.3	--	--	--
			01392	00339	DC	C.7.1.1.3	--	--	--
			01392	00340	DC	C.7.1.1.3	--	--	--
			01392	00341	DC	C.7.1.1.3	--	--	--
			01392	00342	DC	C.7.1.1.3	--	--	--
			01392	00343	DC	C.7.1.1.3	--	--	--
			01392	00344	DC	C.7.1.1.3	--	--	--
			01392	00345	DC	C.7.1.1.3	--	--	--
			01392	00346	DC	C.7.1.1.3	--	--	--
			01392	00347	DC	C.7.1.1.8	--	--	--
			01392	00348	DC	C.7.1.1.8	--	--	--
			01392	00349	DC	C.7.1.1.8	--	--	--
			01392	00350	DC	C.7.1.1.8	--	--	--
			01392	00351	DC	C.7.1.1.8	--	--	--
			01392	00352	DC	C.7.1.1.8	--	--	--
			01392	00353	DC	C.7.1.1.8	--	--	--
			01392	00354	DC	C.7.1.1.8	--	--	--
			01392	00355	DC	C.7.1.1.8	--	--	--
			01392	00356	DC	C.7.1.1.8	--	--	--
			01392	00357	DC	C.7.1.1	--	--	--
			01392	00358	DC	C.7.1.1	--	--	--
			01392	00359	DC	C.7.1.1	--	--	--
			01392	00360	DC	C.7.1.1	--	--	--
			01392	00361	DC	C.7.1.1.5	--	--	--
			01392	00362	DC	C.7.1.1.5	--	--	--
			01392	00363	DC	C.7.1.1.5	--	--	--
			01392	00364	DC	C.7.1.1.5	--	--	--
			01392	00365	DC	C.7.1.1.5	--	--	--
			01392	00366	DC	C.7.1.1.5	--	--	--
			01392	00367	DC	C.7.1.1.5	--	--	--
			01392	00368	DC	C.7.1.1.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00369	DC	C.7.1.1.5	--	--	--
			01392	00370	DC	C.7.1.1.5	--	--	--
			01392	00371	DC	C.7.1.1.5	--	--	--
			01392	00372	DC	C.7.1.1.5	--	--	--
			01392	00373	DC	C.7.1.1.4	--	--	--
			01392	00374	DC	C.7.1.1.4	--	--	--
			01392	00375	DC	C.7.1.1.4	--	--	--
			01392	00376	DC	C.7.1.1.4	--	--	--
			01392	00377	DC	C.7.1.1.4	--	--	--
			01392	00378	DC	C.7.1.1.4	--	--	--
			01392	00379	DC	C.7.1.1.4	--	--	--
			01392	00380	DC	C.7.1.1.4	--	--	--
			01392	00381	DC	C.7.1.1.4	--	--	--
			01392	00382	DC	C.7.1.1.6	--	--	--
			01392	00383	DC	C.7.1.1.6	--	--	--
			01392	00384	DC	C.7.1.1.9	--	--	--
			01392	00385	DC	C.7.1.1.9	--	--	--
			01392	00386	DC	C.7.1.1.9	--	--	--
			01392	00387	DC	C.7.1.1.9	--	--	--
			01392	00388	DC	C.7.1.1.9	C.7.3	--	--
			01392	00389	DC	C.7.1.1.9	--	--	--
			01392	00390	DC	C.7.2.1.9	--	--	--
			01392	00391	DC	C.7.1.1	--	--	--
			01392	00392	DC	C.7.1.1	--	--	--
			01392	00393	DC	C.7.1.1.4	--	--	--
			01392	00394	DC	C.7.1.1.5	--	--	--
			01392	00395	DC	C.7.1.1.5	--	--	--
			01392	00396	DC	C.7.1.1.5	--	--	--
			01392	00397	DC	C.7.1.1.4	C.7.1.1.5	--	--
			01392	00398	DC	C.7.1.1.5	--	--	--
			01392	00399	DC	C.7.1.1.3	--	--	--
			01392	00400	DC	C.7.1.1.4	--	--	--
			01392	00401	DC	C.7.1.1.5	--	--	--
			01392	00402	DC	C.7.1.1.5	C.7.1.2	--	--
			01392	00403	DC	C.7.1.2	--	--	--
			01392	00404	DC	C.7.1.2	--	--	--
			01392	00405	DC	C.7.1.2	--	--	--
			01392	00406	DC	C.7.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00407	DC	C.7.1.1.5	C.7.1.2	--	--
			01392	00408	DC	C.7.1.1.8	--	--	--
			01392	00409	DC	C.7.1.1.5	--	--	--
			01392	00410	DC	C.7.1.1.3	--	--	--
			01392	00411	DC	C.7.1.1.3	C.7.1.1.4	--	--
			01392	00412	DC	C.7.1.1.3	--	--	--
			01392	00413	DC	C.7.1.2	--	--	--
			01392	00414	DC	C.7.1.2	--	--	--
			01392	00415	DC	C.7.1.2	--	--	--
			01392	00416	DC	C.7.1.2	--	--	--
			01392	00417	DC	C.7.1.2	--	--	--
			01392	00418	DC	C.7.1.2	--	--	--
			01392	00419	DC	C.7.1.2	--	--	--
			01392	00420	DC	C.7.1.2	--	--	--
			01392	00421	DC	C.7.1.2	--	--	--
			01392	00422	DC	C.7.1.2	--	--	--
			01392	00423	DC	C.7.1.2	--	--	--
			01392	00424	DC	C.7.1.2	--	--	--
			01392	00425	DC	C.7.1.2	--	--	--
			01392	00426	DC	C.7.1.2	--	--	--
			01392	00427	DC	C.7.1.2	--	--	--
			01392	00428	DC	C.7.1.1.5	--	--	--
			01392	00429	DC	C.7.1.2	--	--	--
			01392	00430	DC	C.7.1.2	--	--	--
			01392	00431	DC	C.7.1.2	--	--	--
			01392	00432	DC	C.7.1.2	--	--	--
			01392	00433	DC	C.7.1.2	--	--	--
			01392	00434	DC	C.7.1.2	--	--	--
			01392	00435	DC	C.7.1.2	--	--	--
			01392	00436	DC	C.7.1.2	--	--	--
			01392	00437	DC	C.7.1.2	--	--	--
			01392	00438	DC	C.7.1.2	--	--	--
			01392	00439	DC	C.4.2.2	--	--	--
			01392	00440	DC	C.4.2.2	--	--	--
			01392	00441	DC	C.4.2.2	--	--	--
			01392	00442	DC	C.7.1.1	C.7.1.1.3	--	--
			01392	00443	----------	C.4.2.4	--	--	--
			01392	00444	----------	C.4.2.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00445	DC	C.4.2.2	--	--	--
			01392	00446A	DC	C.4.3	--	--	--
			01392	00446B	DC	C.4.2.4	--	--	--
			01392	00448	DC	C.7.1.1.1	--	--	--
			01392	00449	DC	C.7.1.1.1	--	--	--
			01392	00450	DC	C.4.2.2	--	--	--
			01392	00451	DC	C.4.2.2	C.7.1.2	--	--
			01392	00452	DC	C.7.1.1	--	--	--
			01392	00453	DC	C.7.1.1.3	--	--	--
			01392	00454	DC	C.7.1.1.6	--	--	--
			01392	00455	DC	C.7.1.1.5	--	--	--
			01392	00456	DC	C.7.1.1.3	--	--	--
			01392	00457	DC	C.7.1.1.9	--	--	--
			01392	00458	DC	C.7.1.1.9	--	--	--
			01392	00459	DC	C.7.1.1.9	--	--	--
			01392	00460	----------	C.2.8.2	--	--	--
			01392	00461	DC	C.4.3	--	--	--
			01392	00462	DC	C.4.3	--	--	--
			01392	00463	DC	C.4.3	--	--	--
			01392	00464	DC	C.4.3	--	--	--
			01392	00465	DC	C.4.3	C.4.1.2.1	--	--
			01392	00466	DC	C.4.3	--	--	--
			01392	00467	DC	C.4.3	--	--	--
			01392	00468	DC	C.6.3	--	--	--
			01392	00469	DC	C.4.3	--	--	--
			01392	00470	DC	C.4.3	--	--	--
			01392	00471	DC	C.4.3	--	--	--
			01392	00472	DC	C.4.3	--	--	--
			01392	00473	DC	C.4.3	C.7.3	--	--
			01392	00474	DC	C.4.3	C.7.3	--	--
			01392	00475	DC	C.4.3	C.7.3	--	--
			01392	00476	DC	C.4.3	--	--	--
			01392	00477	DC	C.4.3	--	--	--
			01392	00478	DC	C.4.3	--	--	--
			01392	00479	DC	C.7.2.2	--	--	--
			01392	00480	DC	C.4.3	C.4.1.3.3	--	--
			01392	00481	DC	C.4.3	--	--	--
			01392	00482	DC	C.4.3	C.7.3	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00483	DC	C.7.2.5	--	--	--
			01392	00484	DC	C.4.3	C.7.1.2	--	--
			01392	00485	DC	C.4.3	--	--	--
			01392	00486	DC	C.4.3	C.7.3	--	--
			01392	00487	DC	C.4.3	C.7.3	--	--
			01392	00488	DC	C.4.3	--	--	--
			01392	00489	DC	C.4.3	--	--	--
			01392	00490	DC	C.4.3	--	--	--
			01392	00491	DC	C.4.3	C.4.2.2	--	--
			01392	00492	DC	C.7.1	--	--	--
			01392	00493	DC	C.7.1	--	--	--
			01392	00494	DC	C.4.2.2	--	--	--
			01392	00495	DC	C.7.2.2	--	--	--
			01392	00496	DC	C.4.2.2	--	--	--
			01392	00497	DC	C.7.3	C.4.2.2	--	--
			01392	00498	DC	C.7.2	--	--	--
			01392	00499	DC	C.4.3	--	--	--
			01392	00500	DC	C.4.3	C.7.3	--	--
			01392	00501	DC	C.4.3	--	--	--
			01392	00502	DC	C.4.3	--	--	--
			01392	00503	DC	C.7.3	--	--	--
			01392	00504	DC	C.7.2	C.7.3	--	--
			01392	00505	DC	C.7.3	--	--	--
			01392	00506	DC	C.4.3	--	--	--
			01392	00507	DC	C.4.3	--	--	--
			01392	00508	DC	C.4.3	--	--	--
			01392	00510	DC	C.5.1	--	--	--
			01392	00511	DC	C.4.3	--	--	--
			01392	00512	DC	C.5.6	--	--	--
			01392	00513	DC	C.5.5	--	--	--
			01392	00514	DC	C.4.3	--	--	--
			01392	00515	DC	C.7.2.1	--	--	--
			01392	00516	DC	C.7.2.1	C.7.2.3	--	--
			01392	00517	DC	C.7.2	C.7.2.2	--	--
			01392	00518	DC	C.7.2.2	--	--	--
			01392	00519	DC	C.7.2.1	C.7.2.2	--	--
			01392	00520	DC	C.4.3	--	--	--
			01392	00521	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00522	DC	C.4.3	--	--	--
			01392	00523	DC	C.7.2.2	--	--	--
			01392	00524	DC	C.4.3	C.7.2.1	--	--
			01392	00525	DC	C.5.8	C.7.2.1	--	--
			01392	00526	DC	C.5.8	--	--	--
			01392	00527	DC	C.7.2.8	--	--	--
			01392	00528	DC	C.7.2.8	C.4.3	--	--
			01392	00529	DC	C.7.2.8	--	--	--
			01392	00530	DC	C.4.3	C.7.2.8	--	--
			01392	00531	DC	C.7.1.1	--	--	--
			01392	00532	DC	C.7.2.8	--	--	--
			01392	00533	DC	C.7.2.8	--	--	--
			01392	00534	DC	C.7.2.8	--	--	--
			01392	00535	DC	C.7.2.8	--	--	--
			01392	00536	DC	C.7.2	--	--	--
			01392	00537	DC	C.7.2.8	--	--	--
			01392	00538	DC	C.7.2.8	--	--	--
			01392	00539	DC	C.7.2.8	--	--	--
			01392	00540	DC	C.7.2.8	--	--	--
			01392	00541	DC	C.7.2.8	--	--	--
			01392	00542	DC	C.7.2.8	--	--	--
			01392	00543	DC	C.7.2.8	--	--	--
			01392	00544	DC	C.7.2.8	--	--	--
			01392	00545	DC	C.7.2.8	--	--	--
			01392	00546	DC	C.4.3	C.7.2.8	--	--
			01392	00547	DC	C.7.2.8	--	--	--
			01392	00548	DC	C.7.2.8	--	--	--
			01392	00549	DC	C.7.2.8	--	--	--
			01392	00550	DC	C.7.2.8	--	--	--
			01392	00551	DC	C.7.2.1	--	--	--
			01392	00552	DC	C.3.1.3	C.7.2.1	--	--
			01392	00553	DC	C.7.2.1	--	--	--
			01392	00554	DC	C.7.2.1	C.7.2.4	--	--
			01392	00555	DC	C.7.2.2	--	--	--
			01392	00556	DC	C.7.3	--	--	--
			01392	00557	DC	C.7.2.1	--	--	--
			01392	00558	DC	C.7.2.1	--	--	--
			01392	00559	DC	C.7.2.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00560	DC	C.7.2.1	--	--	--
			01392	00561	DC	C.7.2.1	--	--	--
			01392	00562	DC	C.7.2.1	--	--	--
			01392	00563	DC	C.7.2.2	--	--	--
			01392	00564	DC	C.7.2.2	--	--	--
			01392	00565	DC	C.7.2.2	--	--	--
			01392	00566	DC	C.7.2.2	C.7.3	--	--
			01392	00567	DC	C.7.2.2	--	--	--
			01392	00568	DC	C.7.2.2	--	--	--
			01392	00569	DC	C.7.2.2	--	--	--
			01392	00570	DC	C.7.2.2	--	--	--
			01392	00571	DC	C.7.2.2	--	--	--
			01392	00572	DC	C.7.2.2	--	--	--
			01392	00573	DC	C.7.2.2	C.7.3	--	--
			01392	00574	DC	C.7.2.2	C.7.3	--	--
			01392	00575	DC	C.7.2.2	C.7.3	--	--
			01392	00576	DC	C.7.2.2	--	--	--
			01392	00577	DC	C.7.2.2	--	--	--
			01392	00578	DC	C.7.2.2	--	--	--
			01392	00579	DC	C.7.2.2	--	--	--
			01392	00580	DC	C.7.2.2	--	--	--
			01392	00581	DC	C.7.2.2	C.7.3	--	--
			01392	00582	DC	C.7.2.2	--	--	--
			01392	00583	DC	C.7.2.2	C.7.3	--	--
			01392	00584	DC	C.7.2.2	--	--	--
			01392	00585	DC	C.7.2.2	C.7.3	--	--
			01392	00586	DC	C.7.2.2	C.7.3	--	--
			01392	00587	DC	C.7.2.2	--	--	--
			01392	00588	DC	C.7.2.3	--	--	--
			01392	00589	DC	C.7.2.3	--	--	--
			01392	00590	DC	C.7.2.3	--	--	--
			01392	00591	DC	C.7.2.3	--	--	--
			01392	00592	DC	C.7.2.3	--	--	--
			01392	00593	DC	C.7.2.3	--	--	--
			01392	00594	DC	C.7.2.3	--	--	--
			01392	00595	DC	C.7.2.3	--	--	--
			01392	00596	DC	C.7.2.1	C.7.2.3	--	--
			01392	00597	DC	C.7.2.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00598	DC	C.7.2.3	--	--	--
			01392	00599	DC	C.7.2.3	--	--	--
			01392	00600	DC	C.7.2.4	--	--	--
			01392	00601	DC	C.7.2.4	--	--	--
			01392	00602	DC	C.7.2.4	--	--	--
			01392	00603	DC	C.7.2.4	--	--	--
			01392	00604	DC	C.7.2.4	--	--	--
			01392	00605	DC	C.7.2.4	--	--	--
			01392	00606	DC	C.7.2.4	--	--	--
			01392	00607	DC	C.7.2.5	--	--	--
			01392	00608	DC	C.7.2.5	--	--	--
			01392	00609	DC	C.7.2.5	--	--	--
			01392	00610	DC	C.7.2.5	--	--	--
			01392	00611	DC	C.7.2.5	--	--	--
			01392	00612	DC	C.7.2.5	--	--	--
			01392	00613	DC	C.7.2.5	--	--	--
			01392	00614	DC	C.7.2.5	--	--	--
			01392	00615	DC	C.7.2.5	--	--	--
			01392	00616	DC	C.7.2.5	--	--	--
			01392	00617	DC	C.7.2.5	--	--	--
			01392	00618	DC	C.7.2.5	--	--	--
			01392	00619	DC	C.7.2.5	--	--	--
			01392	00620	DC	C.7.2.6	--	--	--
			01392	00621	DC	C.7.2.6	--	--	--
			01392	00622	DC	C.7.2.6	--	--	--
			01392	00624	DC	C.7.2.4	--	--	--
			01392	00625	DC	C.7.4.2	--	--	--
			01392	00626	DC	C.7.2.5	--	--	--
			01392	00627	DC	C.7.2.5	--	--	--
			01392	00628	DC	C.7.2.5	--	--	--
			01392	00629	DC	C.7.2.5	--	--	--
			01392	00630	DC	C.7.2.5	--	--	--
			01392	00631	DC	C.7.2.5	--	--	--
			01392	00632	DC	C.7.2.4	--	--	--
			01392	00633	DC	C.7.2.4	--	--	--
			01392	00634	DC	C.7.2.5	--	--	--
			01392	00635	DC	C.7.4	--	--	--
			01392	00636	DC	C.7.2.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00637	DC	C.7.4	--	--	--
			01392	00638	DC	C.7.2.1	--	--	--
			01392	00639	DC	C.7.4	--	--	--
			01392	00640	DC	C.7.4	--	--	--
			01392	00641	DC	C.7.4.2	--	--	--
			01392	00642	DC	C.7.4.2	--	--	--
			01392	00643	DC	C.7.4.2	--	--	--
			01392	00644	DC	C.7.4.2	--	--	--
			01392	00645	DC	C.7.4	--	--	--
			01392	00646	DC	C.7.4.2	--	--	--
			01392	00647	DC	C.7.4	--	--	--
			01392	00648	DC	C.7.4.2	--	--	--
			01392	00649	DC	C.7.4.2	--	--	--
			01392	00650	DC	C.7.2	--	--	--
			01392	00651	DC	C.7.2.5	--	--	--
			01392	00652	DC	C.7.4.2	--	--	--
			01392	00653	DC	C.7.2.4	--	--	--
			01392	00654	DC	C.7.2.2	--	--	--
			01392	00655	DC	C.7.2.3	--	--	--
			01392	00656	DC	C.7.2.3	--	--	--
			01392	00657	DC	C.7.4	--	--	--
			01392	00658	DC	C.7.2.5	--	--	--
			01392	00659	DC	C.7.4	--	--	--
			01392	00660	DC	C.7.4	--	--	--
			01392	00661	DC	C.7.4	--	--	--
			01392	00662	DC	C.7.4	--	--	--
			01392	00663	DC	C.7.2.3	--	--	--
			01392	00664	DC	C.7.2.5	--	--	--
			01392	00665	DC	C.7.4	--	--	--
			01392	00666	DC	C.7.2.2	--	--	--
			01392	00667	DC	C.7.2.4	--	--	--
			01392	00668	----------	C.2.4.1	--	--	--
			01392	00669	DC	C.7.3	--	--	--
			01392	00671	----------	C.2.4.1	--	--	--
			01392	00672	----------	C.2.4.1	--	--	--
			01392	00673	DC	C.7.3	--	--	--
			01392	00674	----------	C.2.4.1	--	--	--
			01392	00675	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00676	DC	C.7.3	--	--	--
			01392	00677	DC	C.7.3	--	--	--
			01392	00678	DC	C.7.3	--	--	--
			01392	00679	DC	C.7.3	--	--	--
			01392	00680	DC	C.7.3	--	--	--
			01392	00681	DC	C.7.3	--	--	--
			01392	00682	DC	C.7.3	--	--	--
			01392	00683	----------	C.2.4.1	--	--	--
			01392	00684	DC	C.7.3	--	--	--
			01392	00685	DC	C.7.3	C.7.4	--	--
			01392	00686	DC	C.7.1.1	C.7.2	C.7.3	--
			01392	00687	DC	C.7.1.1.8	C.7.2.8	C.7.3	--
			01392	00688	DC	C.7.1.1.1	C.7.2.1	C.7.3	--
			01392	00689	DC	C.7.2.2	C.7.3	--	--
			01392	00690	DC	C.7.2.4	C.7.3	--	--
			01392	00691	DC	C.7.1.1.5	C.7.3	--	--
			01392	00692	DC	C.7.1.1.6	C.7.2.6	C.7.3	--
			01392	00693	DC	C.7.3	--	--	--
			01392	00694	DC	C.7.3	--	--	--
			01392	00695	DC	C.7.3	--	--	--
			01392	00696	DC	C.7.3	--	--	--
			01392	00697	DC	C.7.3	--	--	--
			01392	00698	DC	C.7.3	--	--	--
			01392	00699	DC	C.4.3	C.7.4.1	--	--
			01392	00700	DC	C.7.3	--	--	--
			01392	00701	DC	C.7.3	--	--	--
			01392	00702	DC	C.7.3	--	--	--
			01392	00704	DC	C.7.3	--	--	--
			01392	00705	DC	C.4.3	--	--	--
			01392	00706	DC	C.4.3	C.7.4	--	--
			01392	00707	DC	C.7.3	--	--	--
			01392	00708	DC	C.7.3	--	--	--
			01392	00709	DC	C.7.3	--	--	--
			01392	00710	DC	C.7.3	--	--	--
			01392	00711	DC	C.7.4.1	--	--	--
			01392	00712	DC	C.7.4.1	--	--	--
			01392	00713	DC	C.7.4.1	--	--	--
			01392	00714	DC	C.7.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00715	DC	C.7.4.1	--	--	--
			01392	00716	DC	C.7.4	--	--	--
			01392	00717	DC	C.7.4	--	--	--
			01392	00718	DC	C.7.4	--	--	--
			01392	00719	DC	C.7.4.1	--	--	--
			01392	00720	DC	C.7.4.1	--	--	--
			01392	00721	DC	C.7.4.1	--	--	--
			01392	00722	DC	C.7.4.2	--	--	--
			01392	00723	DC	C.7.4.2	--	--	--
			01392	00724	DC	C.7.4.2	--	--	--
			01392	00725	DC	C.7.4.2	--	--	--
			01392	00726	DC	C.7.4.2	--	--	--
			01392	00727	DC	C.7.4.2	--	--	--
			01392	00728	DC	C.7.4.2	--	--	--
			01392	00729	DC	C.7.4.2	--	--	--
			01392	00730	DC	C.7.4.2	--	--	--
			01392	00731	DC	C.7.4.2	--	--	--
			01392	00732	DC	C.7.4.2	--	--	--
			01392	00733	DC	C.7.4.2	--	--	--
			01392	00734	DC	C.7.4.2	--	--	--
			01392	00735	DC	C.7.4.3	--	--	--
			01392	00736	DC	C.7.4.3	--	--	--
			01392	00737	DC	C.7.4.3	--	--	--
			01392	00738	DC	C.7.4.3	--	--	--
			01392	00739	DC	C.7.4.3	--	--	--
			01392	00740	DC	C.7.4.3	--	--	--
			01392	00741	DC	C.7.4.3	--	--	--
			01392	00742	DC	C.7.4.3	--	--	--
			01392	00743	DC	C.7.4.3	--	--	--
			01392	00744	DC	C.7.4.3	--	--	--
			01392	00745	DC	C.7.4.3	--	--	--
			01392	00746	DC	C.7.4.3	--	--	--
			01392	00747	DC	C.7.4.3	--	--	--
			01392	00748	DC	C.7.4.3	--	--	--
			01392	00749	DC	C.7.4.3	--	--	--
			01392	00750	DC	C.7.4.3	--	--	--
			01392	00751	DC	C.7.4.3	--	--	--
			01392	00752	DC	C.7.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00753	DC	C.7.4.3	--	--	--
			01392	00754	DC	C.7.4.3	--	--	--
			01392	00755	DC	C.7.4.3	--	--	--
			01392	00756	DC	C.7.4.4	--	--	--
			01392	00757	DC	C.7.4.4	--	--	--
			01392	00758	DC	C.7.4.4	--	--	--
			01392	00759	DC	C.7.4.4	--	--	--
			01392	00760	DC	C.7.4.4	--	--	--
			01392	00761	DC	C.7.4.4	--	--	--
			01392	00762	DC	C.7.4.4	--	--	--
			01392	00763	DC	C.7.4.4	--	--	--
			01392	00764	DC	C.7.4.4	--	--	--
			01392	00765	DC	C.7.4.5	--	--	--
			01392	00766	DC	C.7.4.5	--	--	--
			01392	00767	DC	C.7.4.5	--	--	--
			01392	00768	DC	C.7.4.5	--	--	--
			01392	00769	DC	C.4.3	--	--	--
			01392	00770	DC	C.4.3	--	--	--
			01392	00771	DC	C.4.3	--	--	--
			01392	00772	DC	C.4.3	--	--	--
			01392	00773	DC	C.7.2	--	--	--
			01392	00774	DC	C.4.3	C.7.2.1	--	--
			01392	00775	DC	C.4.3	C.7.2.2	--	--
			01392	00776	DC	C.4.3	C.7.2.2	--	--
			01392	00777	DC	C.4.3	C.7.2.3	--	--
			01392	00778	DC	C.4.3	C.7.2.4	--	--
			01392	00779	DC	C.4.3	C.7.2.5	--	--
			01392	00780	DC	C.4.3	C.7.2.4	C.7.2.3	C.7.2.5
			01392	00781	DC	C.4.3	C.7.3	--	--
			01392	00782	DC	C.4.3	C.7.3	--	--
			01392	00783	DC	C.4.3	C.7.4.5	--	--
			01392	00785	DC	C.4.3	C.7.2	--	--
			01392	00786	DC	C.4.3	C.7.2.1	--	--
			01392	00787	DC	C.4.3	C.7.2.2	--	--
			01392	00788	DC	C.4.3	C.7.2.2	--	--
			01392	00789	DC	C.4.3	C.7.2.3	--	--
			01392	00790	DC	C.4.3	C.7.2.4	--	--
			01392	00791	DC	C.4.3	C.7.2.5	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00792	DC	C.4.3	C.7.2.3	C.7.2.4	C.7.2.5
			01392	00793	DC	C.4.3	C.7.3	--	--
			01392	00794	DC	C.4.3	C.7.3	--	--
			01392	00795	DC	C.4.3	C.7.4.5	--	--
			01392	00796	DC	C.4.3	C.7.4	C.7.2.5	--
			01392	00797	DC	C.4.3	C.7.2	--	--
			01392	00798	DC	C.4.3	C.7.2.2	--	--
			01392	00799	DC	C.4.3	--	--	--
			01392	00800	DC	C.3.2	--	--	--
			01392	00801	----------	C.2.7	--	--	--
			01392	00802	----------	C.3.1.1	--	--	--
			01392	00803	DC	C.5.9	--	--	--
			01392	00804	DC	C.5.9	--	--	--
			01392	00805	DC	C.5.9	--	--	--
			01392	00806	DC	C.5.9	--	--	--
			01392	00807	DC	C.5.9	--	--	--
			01392	00808	DC	C.5.9	--	--	--
			01392	00809	DC	C.5.9	--	--	--
			01392	00810	DC	C.6.2	--	--	--
			01392	00811	DC	C.6.2	--	--	--
			01392	00812	DC	C.6.2	--	--	--
			01392	00813	DC	C.6.2	--	--	--
			01392	00814	DC	C.6.2	--	--	--
			01392	00815	DC	C.6.2	--	--	--
			01392	00816	DC	C.6.2	--	--	--
			01392	00817	DC	C.6.3	--	--	--
			01392	00818	DC	C.6.3	--	--	--
			01392	00819	DC	C.6.3	C.4.1.3.3	--	--
			01392	00820	DC	C.6.3	C.7.3	--	--
			01392	00821	DC	C.6.3	--	--	--
			01392	00822	DC	C.6.3	C.7.2.8	--	--
			01392	00823	DC	C.6.3	C.4.3	--	--
			01392	00824	DC	C.6.4	--	--	--
			01392	00825	DC	C.6.4	C.7.3	--	--
			01392	00827	DC	C.7.2	C.4.1.3	--	--
			01392	00828	DC	C.7.2	--	--	--
			01392	00829	DC	C.7.2	--	--	--
			01392	00830	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00831	DC	C.7.2	--	--	--
			01392	00832	DC	C.7.1	--	--	--
			01392	00833	DC	C.7.2	--	--	--
			01392	00834	DC	C.7.2	--	--	--
			01392	00835	DC	C.7.2	C.7.2.8	--	--
			01392	00836	DC	C.7.2	C.7.2.1	--	--
			01392	00837	DC	C.7.2	C.7.2.1	--	--
			01392	00838	DC	C.7.2	C.7.3	--	--
			01392	00839	DC	C.7.2	C.3.1.3	--	--
			01392	00840	DC	C.7.2	C.3.1.3	--	--
			01392	00841	DC	C.7.2	C.7.2.8	--	--
			01392	00842	DC	C.7.2	C.7.3	--	--
			01392	00843	DC	C.7.2	C.7.2.2	--	--
			01392	00844	DC	C.7.2	C.7.2.8	--	--
			01392	00845	DC	C.7.2	C.7.2.2	--	--
			01392	00846	DC	C.7.2	C.7.3.1	--	--
			01392	00847	DC	C.7.2	C.7.2.5	--	--
			01392	00848	DC	C.7.2	C.7.2.3	--	--
			01392	00849	DC	C.7.2	C.7.2.3	--	--
			01392	00850	DC	C.7.2	C.7.2.3	--	--
			01392	00851	DC	C.7.2	C.4.2.3	--	--
			01392	00852	DC	C.7.2	C.7.2.6	C.7.3	--
			01392	00853	DC	C.7.2	C.7.2.6	--	--
			01392	00854	DC	C.7.2	C.7.2.8	--	--
			01392	00855	DC	C.7.2	--	--	--
			01392	00856	DC	C.7.2	C.7.2.1	--	--
			01392	00857	DC	C.7.2	--	--	--
			01392	00858	DC	C.7.2	C.7.2.8	C.4.1.2.2	--
			01392	00859	DC	C.7.2.8	--	--	--
			01392	00860	DC	C.7.2.8	--	--	--
			01392	00861	DC	C.7.2.3	--	--	--
			01392	00862	DC	C.7.2.6	--	--	--
			01392	00863	DC	C.7.2	C.7.2.8	C.7.2.3	--
			01392	00864	DC	C.7.2.5	C.7.2.2	--	--
			01392	00865	DC	C.7.2.4	--	--	--
			01392	00866	DC	C.7.2.2	--	--	--
			01392	00867	DC	C.7.2.2	--	--	--
			01392	00868	DC	C.7.2	C.3.1.3	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00869	DC	C.4.2.2	C.4.3	C.7.2.1	--
			01392	00870	DC	C.7.2.1	C.7.2.2	--	--
			01392	00871	DC	C.7.2	--	--	--
			01392	00872	DC	C.7.2.3	C.7.2	--	--
			01392	00873	DC	C.7.2	--	--	--
			01392	00874	DC	C.7.2.8	--	--	--
			01392	00875	DC	C.7.2.2	--	--	--
			01392	00876	DC	C.7.2.5	--	--	--
			01392	00877	DC	C.7.2.5	C.7.3	--	--
			01392	00878	DC	C.7.2.2	C.7.3	--	--
			01392	00879	DC	C.7.2	--	--	--
			01392	00880	DC	C.7.2	C.3.1.3	--	--
			01392	00881	DC	C.7.2	C.3.1.3	--	--
			01392	00882	DC	C.7.2	--	--	--
			01392	00883	DC	C.7.2	--	--	--
			01392	00884	DC	C.7.2.3	--	--	--
			01392	00885	DC	C.7.2	--	--	--
			01392	00886	DC	C.7.2.5	--	--	--
			01392	00887	DC	C.7.2	C.7.2.4	--	--
			01392	00888	DC	C.7.2.2	--	--	--
			01392	00889	DC	C.7.4	C.7.2.2	--	--
			01392	00890	DC	C.7.2	C.7.2.1	--	--
			01392	00891	DC	C.7.2	--	--	--
			01392	00892	DC	C.7.2	--	--	--
			01392	00893	DC	C.7.2.3	--	--	--
			01392	00894	DC	C.7.2	--	--	--
			01392	00895	DC	C.7.2	C.7.2.8	--	--
			01392	00896	DC	C.7.2	C.7.2.1	--	--
			01392	00897	DC	C.7.2	--	--	--
			01392	00898	DC	C.7.2.6	--	--	--
			01392	00899	DC	C.7.2.6	C.7.4	--	--
			01392	00900	DC	C.7.4	--	--	--
			01392	00901	DC	C.7.2	--	--	--
			01392	00902	DC	C.7.2.6	--	--	--
			01392	00903	DC	C.7.2.2	--	--	--
			01392	00904	DC	C.7.2.2	--	--	--
			01392	00905	DC	C.7.3	C.7.2.2	--	--
			01392	00906	DC	C.4.1.3.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00907	DC	C.7.1.1.2	C.7.2.2	--	--
			01392	00908	DC	C.7.2	--	--	--
			01392	00909	DC	C.7.2	--	--	--
			01392	00910	DC	C.7.2.8	--	--	--
			01392	00911	DC	C.7.2	--	--	--
			01392	00912	DC	C.7.2	--	--	--
			01392	00913	DC	C.7.2	--	--	--
			01392	00914	DC	C.7.2	--	--	--
			01392	00915	DC	C.5.9	--	--	--
			01392	00916	DC	C.7.2	C.7.1.1	--	--
			01392	00917	DC	C.7.2.1	--	--	--
			01392	00918	DC	C.7.2	--	--	--
			01392	00919	DC	C.7.1.1	--	--	--
			01392	00920	DC	C.7.2	--	--	--
			01392	00921	DC	C.7.2	--	--	--
			01392	00922	DC	C.7.2	--	--	--
			01392	00923	DC	C.7.2	--	--	--
			01392	00924	DC	C.7.2	--	--	--
			01392	00925	DC	C.7.2	--	--	--
			01392	00926	DC	C.7.2.2	--	--	--
			01392	00927	DC	C.7.2.3	--	--	--
			01392	00928	DC	C.7.2	--	--	--
			01392	00929	DC	C.7.2	--	--	--
			01392	00930	DC	C.5.9	--	--	--
			01392	00931	DC	C.7.2	--	--	--
			01392	00932	DC	C.7.4	--	--	--
			01392	00933	DC	C.7.4	--	--	--
			01392	00934	DC	C.7.4	--	--	--
			01392	00935	DC	C.7.4	--	--	--
			01392	00936	DC	C.7.4	--	--	--
			01392	00937	DC	C.7.4	--	--	--
			01392	00938	DC	C.7.4	--	--	--
			01392	00939	DC	C.7.4	--	--	--
			01392	00940	DC	C.7.3	--	--	--
			01392	00941	DC	C.7.3	--	--	--
			01392	00942	----------	C.2.4.1	--	--	--
			01392	00943	----------	C.2.4.1	--	--	--
			01392	00944	DC	C.7.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00945	DC	C.7.3	C.6.2	--	--
			01392	00946	DC	C.7.3	--	--	--
			01392	00947	DC	C.7.3	--	--	--
			01392	00948	DC	C.7.3	--	--	--
			01392	00949	DC	C.7.3	--	--	--
			01392	00950	DC	C.7.3	--	--	--
			01392	00951	DC	C.7.3	--	--	--
			01392	00952	DC	C.7.3	--	--	--
			01392	00953	DC	C.7.3	--	--	--
			01392	00954	DC	C.7.3	--	--	--
			01392	00955	DC	C.7.3	--	--	--
			01392	00956	DC	C.7.3	--	--	--
			01392	00957	DC	C.6.3	C.7.3	--	--
			01392	00958	DC	C.7.3	--	--	--
			01392	00959	DC	C.7.3	--	--	--
			01392	00960	DC	C.7.3	--	--	--
			01392	00961	DC	C.7.3	--	--	--
			01392	00962	DC	C.2.4.1	C.7.3	--	--
			01392	00963	DC	C.7.3	--	--	--
			01392	00964	DC	C.7.3	--	--	--
			01392	00965	DC	C.7.3	--	--	--
			01392	00966	DC	C.7.3	--	--	--
			01392	00967	DC	C.7.3	--	--	--
			01392	00968	DC	C.7.3	--	--	--
			01392	00969	DC	C.7.3	--	--	--
			01392	00970	DC	C.6.1	--	--	--
			01392	00971	DC	C.7.2.3	--	--	--
			01392	00972	DC	C.7.2	C.7.2.3	--	--
			01392	00973	DC	C.7.2.3	--	--	--
			01392	00974	----------	C.3.4.3	--	--	--
			01392	00975	----------	C.3.4.3	--	--	--
			01392	00976	DC	C.7.5	--	--	--
			01392	00977	DC	C.7.3	C.7.5	--	--
			01392	00978	DC	C.7.5	--	--	--
			01392	00979	DC	C.7.3	--	--	--
			01392	00980	DC	C.7.4	C.4.3	--	--
			01392	00981	DC	C.7.2.2	C.7.2.6	--	--
			01392	00982	DC	C.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	00983	DC	C.4.3	--	--	--
			01392	00984	DC	C.7.5	--	--	--
			01392	00985	DC	C.7.4	C.7.5	--	--
			01392	00986	DC	C.7.5	C.7.2.3	--	--
			01392	00987	DC	C.7.5	C.7.2.3	--	--
			01392	00988	DC	C.7.5	C.7.2.3	--	--
			01392	00989	DC	C.7.5	C.7.2.4	--	--
			01392	00990	DC	C.7.5	C.7.2.5	--	--
			01392	00991	DC	C.7.5	C.7.2.8	--	--
			01392	00992	DC	C.7.4	C.7.5	--	--
			01392	00993	DC	C.7.5	C.7.2.6	--	--
			01392	00994	DC	C.7.5	C.7.2.1	--	--
			01392	00995	DC	C.7.5	C.7.2.2	--	--
			01392	00996	DC	C.7.5	C.7.2.4	--	--
			01392	00997	DC	C.7.4	C.7.5	--	--
			01392	00998	DC	C.7.5	C.7.4	C.7.4.4	--
			01392	00999	DC	C.7.5	C.7.3	--	--
			01392	01000	DC	C.7.5	--	--	--
			01392	01001	DC	C.7.5	C.7.2	--	--
			01392	01002	DC	C.8.5	--	--	--
			01392	01003	DC	C.6.2	--	--	--
			01392	01004	DC	C.6.2	--	--	--
			01392	01005	DC	C.6.2	--	--	--
			01392	01006	DC	C.6.3	--	--	--
			01392	01007	DC	C.6.3	--	--	--
			01392	01008	DC	C.6.3	--	--	--
			01392	01009	DC	C.7.2	--	--	--
			01392	01010	DC	C.7.2	--	--	--
			01392	01011	DC	C.7.1.1	C.7.2	--	--
			01392	01012	DC	C.7.2.5	--	--	--
			01392	01013	DC	C.7.2.3	--	--	--
			01392	01014	DC	C.7.2.4	--	--	--
			01392	01015	DC	C.7.2	--	--	--
			01392	01016	DC	C.7.2	--	--	--
			01392	01017	DC	C.7.2	--	--	--
			01392	01018	DC	C.7.2	C.7.3	--	--
			01392	01019	DC	C.7.2	--	--	--
			01392	01020	DC	C.5.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	01021	DC	C.5.1	--	--	--
			01392	01022	DC	C.5.1	--	--	--
			01392	01023	DC	C.5.1	--	--	--
			01392	01024	DC	C.5.1	--	--	--
			01392	01025	DC	C.5.1	--	--	--
			01392	01026	----------	C.2.7	--	--	--
			01392	01027	DC	C.5.1	--	--	--
			01392	01028	DC	C.5.1	--	--	--
			01392	01029	DC	C.5.1	--	--	--
			01392	01030	DC	C.5.1	--	--	--
			01392	01031	DC	C.5.1	--	--	--
			01392	01032	DC	C.5.2	--	--	--
			01392	01033	DC	C.5.1	--	--	--
			01392	01034	DC	C.5.1	--	--	--
			01392	01035	DC	C.5.2	--	--	--
			01392	01036	DC	C.5.1	--	--	--
			01392	01037	DC	C.5.1	--	--	--
			01392	01038	DC	C.5.1	--	--	--
			01392	01039	DC	C.5.1	--	--	--
			01392	01040	DC	C.5.1	--	--	--
			01392	01041	DC	C.5.1	--	--	--
			01392	01042	DC	C.5.1	--	--	--
			01392	01043	DC	C.5.1	--	--	--
			01392	01044	DC	C.5.1	--	--	--
			01392	01045	DC	C.5.1	--	--	--
			01392	01046	DC	C.5.1	--	--	--
			01392	01047	DC	C.5.1	--	--	--
			01392	01048	DC	C.5.1	--	--	--
			01392	01049	DC	C.5.1	--	--	--
			01392	01050	DC	C.5.1	--	--	--
			01392	01051	DC	C.5.1	--	--	--
			01392	01052	DC	C.5.1	--	--	--
			01392	01053	DC	C.5.1	--	--	--
			01392	01054	DC	C.5.2	--	--	--
			01392	01055	DC	C.5.2	--	--	--
			01392	01056	DC	C.5.2	--	--	--
			01392	01057	DC	C.5.2	--	--	--
			01392	01058	DC	C.5.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	01059	DC	C.5.2	--	--	--
			01392	01060	DC	C.5.2	--	--	--
			01392	01061	DC	C.5.2	--	--	--
			01392	01062	DC	C.5.2	--	--	--
			01392	01063	DC	C.5.2	--	--	--
			01392	01064	DC	C.5.3	--	--	--
			01392	01065	DC	C.5.3	--	--	--
			01392	01066	DC	C.5.3	--	--	--
			01392	01067	DC	C.5.3	--	--	--
			01392	01068	DC	C.5.3	--	--	--
			01392	01069	DC	C.5.3	--	--	--
			01392	01070	DC	C.5.3	--	--	--
			01392	01071	DC	C.5.4	--	--	--
			01392	01072	DC	C.5.5	--	--	--
			01392	01073	DC	C.5.5	--	--	--
			01392	01074	DC	C.5.6	--	--	--
			01392	01075	DC	C.5.6	--	--	--
			01392	01076	DC	C.5.6	--	--	--
			01392	01077	DC	C.5.7	--	--	--
			01392	01078	DC	C.5.7	--	--	--
			01392	01079	DC	C.5.7	--	--	--
			01392	01080	DC	C.5.8	--	--	--
			01392	01081	DC	C.5.8	--	--	--
			01392	01082	DC	C.5.8	C.4.1.1.8	--	--
			01392	01083	DC	C.5.8	--	--	--
			01392	01084	DC	C.5.8	--	--	--
			01392	01085	DC	C.5.8	--	--	--
			01392	01086	DC	C.8.3	--	--	--
			01392	01087	DC	C.8.1	--	--	--
			01392	01088	DC	C.8.1	--	--	--
			01392	01089	DC	C.8.1	--	--	--
			01392	01090	DC	C.8.4	--	--	--
			01392	01091	DC	C.8.2	--	--	--
			01392	01092	DC	C.8.2	--	--	--
			01392	01093	DC	C.8.5	--	--	--
			01392	01094	DC	C.8.5	--	--	--
			01392	01095	DC	C.8.5	--	--	--
			01392	01096	DC	C.8.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	01097	DC	C.8.5	--	--	--
			01392	01098	DC	C.6.6	--	--	--
			01392	01099	DC	C.6.6	--	--	--
			01392	01100	DC	C.5.11	--	--	--
			01392	01101	DC	C.5.11	--	--	--
			01392	01102	DC	C.5.11	--	--	--
			01392	01103	DC	C.5.11	--	--	--
			01392	01104	DC	C.5.11	--	--	--
			01392	01105	DC	C.5.11	--	--	--
			01392	01106	DC	C.5.11	--	--	--
			01392	01107	DC	C.5.11	--	--	--
			01392	01108	DC	C.5.11	--	--	--
			01392	01109	DC	C.5.11	--	--	--
			01392	01110	DC	C.5.11	--	--	--
			01392	01111	DC	C.5.11	--	--	--
			01392	01112	DC	C.5.11	--	--	--
			01392	01113	DC	C.5.11	--	--	--
			01392	01114	DC	C.5.11	--	--	--
			01392	01115	DC	C.5.11	--	--	--
			01392	01117	----------	C.3.4.3	--	--	--
			01392	01118	----------	C.3.4.3	--	--	--
			01392	01119	----------	C.3.4.3	--	--	--
			01392	01120	DC	C.4.2.1	C.4.1.2.2	C.5.1	--
			01392	01121	DC	C.5.1	--	--	--
			01392	01122	DC	C.5.1	--	--	--
			01392	01123	DC	C.7.2.3	--	--	--
			01392	01124	DC	C.7.2.1	--	--	--
			01392	01125	DC	C.7.2	C.2.7	--	--
			01392	01126	DC	C.7.2.1	C.7.4	C.7.2.6	--
			01392	01127	DC	C.7.2	--	--	--
			01392	01128	DC	C.7.2	--	--	--
			01392	01129	DC	C.7.2.1	--	--	--
			01392	01130	DC	C.7.2.1	C.7.2.6	--	--
			01392	01131	DC	C.7.3	--	--	--
			01392	01132	DC	C.3.2	C.7.2	--	--
			01392	01133	----------	C.3.4.2.2	--	--	--
			01392	01134	DC	C.7.3	--	--	--
			01392	01135	----------	C.3.4.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	01136	DC	C.7.3	--	--	--
			01392	01137	DC	C.7.3	--	--	--
			01392	01138	----------	C.3.4.2.2	--	--	--
			01392	01139	----------	C.3.4.2.2	--	--	--
			01392	01140	----------	C.3.4.2.2	--	--	--
			01392	01141	----------	C.3.4.2.2	--	--	--
			01392	01142	----------	C.3.4.2.3	--	--	--
			01392	01143	DC	C.8.3	--	--	--
			01392	01144	DC	C.7.3	--	--	--
			01392	01145	DC	C.7.3	--	--	--
			01392	01146	DC	C.7.3	--	--	--
			01392	01147	DC	C.7.3	--	--	--
			01392	01148	DC	C.7.3	--	--	--
			01392	01149	DC	C.7.3	--	--	--
			01392	01150	DC	C.7.3	--	--	--
			01392	01151	DC	C.7.3	--	--	--
			01392	01152	DC	C.7.3	--	--	--
			01392	01153	DC	C.7.3	--	--	--
			01392	01154	DC	C.7.3	--	--	--
			01392	01155	DC	C.7.3	--	--	--
			01392	01156	DC	C.7.3	--	--	--
			01392	01157	DC	C.7.3	--	--	--
			01392	01158	----------	C.2.1.1	--	--	--
			01392	01159	----------	C.2.1.2	--	--	--
			01392	01160	----------	C.2.3.1	--	--	--
			01392	01161	----------	C.2.8.3	--	--	--
			01392	01162	----------	C.3.1.1	--	--	--
			01392	01163	----------	C.3.1.1	--	--	--
			01392	01164	DC	C.2.8.3	--	--	--
			01392	01165	----------	C.2.8.3	--	--	--
			01392	01166	----------	C.2.8.3	--	--	--
			01392	01167	----------	C.2.8.3	--	--	--
			01392	01168	----------	C.2.8.3	--	--	--
			01392	01169	DC	C.4.1	--	--	--
			01392	01170	DC	C.4.1.1	C.4.1.2.2	--	--
			01392	01171	DC	C.5.1.1	C.4.1.2.2	--	--
			01392	01172	----------	C.3.1.2	--	--	--
			01392	01173	DC	C.3.1.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	01174	DC	C.7.2	C.7.3	--	--
			01392	01175	DC	C.7.2	--	--	--
			01392	01176	DC	C.4.2.1	C.5.1	--	--
			01392	01177	DC	C.6.2	--	--	--
			01392	01178	DC	C.7.2	--	--	--
			01392	01179	DC	C.7.2.3	--	--	--
			01392	01180	DC	C.7.2.6	--	--	--
			01392	01181	DC	C.7.2.6	--	--	--
			01392	01182	----------	C.4.3	--	--	--
			01392	01183A	DC	C.3.2	--	--	--
			01392	01183B	DC	C.7	--	--	--
			01392	01184	----------	C.4.2	--	--	--
			01392	01185	DC	C.7.2.3	--	--	--
			01392	01186	DC	C.4.1.5	C.7.1.2	--	--
			01392	01187	DC	C.7.1.2	--	--	--
			01392	01188	DC	C.7.1.2	--	--	--
			01392	01189	DC	C.7.1.2	--	--	--
			01392	01190	DC	C.7.3	--	--	--
			01392	01191	----------	C.7.3	--	--	--
			01392	01192	DC	C.6.2	--	--	--
			01392	01193	DC	C.7.3	--	--	--
			01392	01194	DC	C.7.3	--	--	--
			01392	01195	----------	C.3.4.4	--	--	--
			01392	01196	----------	C.3.4.4	--	--	--
			01392	01197	DC	C.4.3	C.7.2	--	--
			01392	01198	----------	C.2.8.3	--	--	--
			01392	01199	----------	C.2.7	--	--	--
			01392	01200	----------	C.2.8.2	--	--	--
			01392	01201	----------	C.2.7	--	--	--
			01392	01202	DC	C.4.1.1	--	--	--
			01392	01204	----------	C.2.7	--	--	--
			01392	01205	----------	C.2.7	--	--	--
			01392	01206	DC	C.4.1.2.2	--	--	--
			01392	01207	DC	C.4.1.2.2	--	--	--
			01392	01208	DC	C.4.1.2.2	--	--	--
			01392	01209	DC	C.4.1.2.2	--	--	--
			01392	01210	DC	C.4.1.2.2	--	--	--
			01392	01211	DC	C.4.1.1.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	01212	DC	C.4.1.1.5	--	--	--
			01392	01213	DC	C.4.2.1	C.5.1	--	--
			01392	01214	DC	C.7.2.3	--	--	--
			01392	01215	DC	C.7.2.3	--	--	--
			01392	01216	----------	C.2.1.1	--	--	--
			01392	01217	DC	C.4.1.3.3	--	--	--
			01392	01218	DC	C.7.2.3	--	--	--
			01392	01219	DC	C.7.1.1.3	--	--	--
			01392	01220	DC	C.7.1.1.3	--	--	--
			01392	01221	DC	C.7.1.1.3	--	--	--
			01392	01222	DC	C.7.2.8	C.7.1.1.8	--	--
			01392	01223	DC	C.7.2.8	--	--	--
			01392	01224	DC	C.7.3	C.7.2.8	C.7.2	--
			01392	01225	DC	C.7.2.8	--	--	--
			01392	01226	DC	C.7.2.5	C.7.1.1.5	--	--
			01392	01227	DC	C.4.1.3.4	--	--	--
			01392	01228	DC	C.4.1.3.4	--	--	--
			01392	01229	DC	C.4.1.3.4	--	--	--
			01392	01230	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01231	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01232	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01233	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01234	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01235	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01236	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01237	DC	C.7.2.5	C.7.1.1.5	--	--
			01392	01238	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01239	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01240	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01241	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01242	DC	C.7.1.1.5	C.7.2.5	--	--
			01392	01243	DC	C.7.2.4	--	--	--
			01392	01244	DC	C.7.2.4	--	--	--
			01392	01245	DC	C.7.2.4	--	--	--
			01392	01246	DC	C.7.2.4	--	--	--
			01392	01247	DC	C.7.2.3	--	--	--
			01392	01248	DC	C.7.2.8	--	--	--
			01392	01249	DC	C.7.2.8	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01392	01250	DC	C.7.2	--	--	--
			01392	01251	DC	C.7.2	--	--	--
			01392	01252	DC	C.7.2.4	C.7.4	--	--
			01392	01253	DC	C.7.1.1.1	--	--	--
			01392	01254	DC	C.4.1.3.2	--	--	--
			01392	01255	DC	C.4.1.3.2	--	--	--
			01392	01256	DC	C.7.1.1	C.7.2.2	--	--
			01392	01257	DC	C.4.1.3.2	--	--	--
			01392	01258	DC	C.7.1.1	C.7.2.2	--	--
			01392	01259	DC	C.7.2.2	--	--	--
			01392	01260	DC	C.7.2.2	--	--	--
			01392	01261	DC	C.7.2	--	--	--
			01392	01262	DC	C.7.2	--	--	--
			01392	01263	DC	C.7.2	--	--	--
			01392	01264	DC	C.7.2	--	--	--
			01392	01265	DC	C.4.1.5	--	--	--
			01392	01266	DC	C.4.1.5	--	--	--
			01392	01267	DC	C.4.1.5.4	--	--	--
			01392	01268	DC	C.4.1.5.4	--	--	--
			01392	01269	DC	C.4.1.5.4	--	--	--
			01392	01270	DC	C.7.4	--	--	--
			01392	01271	DC	C.7.4	--	--	--
			01392	01272	DC	C.7.1.1.6	C.7.2.6	--	--
			01392	01273	DC	C.7.1.1.6	C.7.2.6	--	--
			01392	01274	DC	C.7.1.1.6	C.7.2.6	--	--
			01392	01275	DC	C.7.3	--	--	--
			01392	01276	----------	C.2.4	--	--	--
			01392	01277	DC	C.7.3	--	--	--
		Utah Office of Planning	01395	00001	DC	C.4.1.3.5	C.7.1.1.4	--	--
			01395	00002	DC	C.4.1.3.5	C.7.1.1.4	C.7.2.4	--
			01395	00003	DC	C.4.1.3.5	C.7.1.1.4	C.7.2.4	--
			01395	00004	DC	C.4.1.3.5	C.7.1.1.4	C.7.2.4	--
			01395	00005	DC	C.4.1.3.5	C.7.1.1.4	C.7.2.4	--
			01395	00006	DC	C.4.1.3.5	C.7.1.1.4	C.7.2.4	--
			01395	00007	DC	C.4.1.3.5	C.7.1.1.4	C.7.2.4	--
			01395	00008	DC	C.4.1.3.5	C.7.1.1.4	C.7.2.4	--
	Barnes, Richard D.		02234	00001	----------	C.3.4.4	--	--	--
			02234	00002	DC	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Barnett, Jack A.	CO Riv Basin/Salinity Control	01311	00001	DC	C.7.2.8	--	--	--
			01311	00002	----------	C.2.1.2	--	--	--
	Barth, Martin J.		01143	00001	DC	C.7.2.4	--	--	--
			01143	00002	DC	C.3.1.3	--	--	--
	Beener, Colleen		00074	00001	----------	C.3.4.4	--	--	--
			00074	00002	DC	C.7.4	--	--	--
			00074	00003	DC	C.7.2	--	--	--
			00074	00004	----------	C.3.1.2	--	--	--
			00074	00005	DC	C.7.4	--	--	--
	Belka, Wayne		00764	00001	DC	C.5.1	C.7.2.8	--	--
			00764	00002	DC	C.3.1.3	C.4.1.1.5	--	--
			00764	00003	DC	C.4.1.1.5	--	--	--
			00764	00004	DC	C.4.1.2.1	--	--	--
			00764	00005	DC	C.4.1.2.2	--	--	--
	Belka, Wayne		02198	00001	DC	C.7.2.8	C.5.1	--	--
			02198	00002	DC	C.4.1.1.5	C.3.1.3	--	--
			02198	00003	DC	C.4.1.2.1	C.4.1.1.5	--	--
			02198	00004	DC	C.4.1.2.2	--	--	--
	Berry, John		01100	00001	----------	C.3.4.4	--	--	--
			01100	00002	DC	C.7.2.4	--	--	--
			01100	00003	DC	C.7.4.2	--	--	--
			01100	00004	----------	C.3.4.4	--	--	--
	Berry, Raymond Scott	Attorney at Law	00046	00001	DC	C.7.2	--	--	--
			00046	00002	DC	C.7.2.4	--	--	--
			00046	00003	DC	C.7.2	--	--	--
	Bigler, Matt		00277	00001	DC	C.7.4	--	--	--
			00277	00002	DC	C.7.2	--	--	--
			00277	00003	----------	C.2.4.1	--	--	--
	Black, Calvin		00928	00001	----------	C.3.4.2.1	--	--	--
			00928	00002	DC	C.4.1.3.3	--	--	--
			00928	00003	DC	C.7.2.4	--	--	--
			00928	00004	DC	C.7.2.5	--	--	--
			00928	00005A	DC	C.7.4.3	--	--	--
			00928	00005B	DC	C.7.4.2	--	--	--
			00928	00005C	DC	C.7.3	--	--	--
			00928	00006	DC	C.7.3	--	--	--
			00928	00007	----------	C.3.4.3	--	--	--
	Black, Calvin		02185	00001	DC	C.6.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02185	00002	DC	C.4.1.3.3	--	--	--
			02185	00003	DC	C.7.2	--	--	--
			02185	00004	DC	C.7.4.2	--	--	--
			02185	00005	DC	C.7.3	--	--	--
			02185	00006	----------	C.3.4.3	--	--	--
	Black, Calvin	San Juan County Commission	01539	00002	----------	C.3.4.4	--	--	--
			01539	00003	DC	C.7.4.2	C.7.4.3	--	--
			01539	00005	----------	C.3.4.3	--	--	--
			01539	00006	DC	C.4.1	--	--	--
			01539	00007	----------	C.3.4.3	--	--	--
			01539	00008	----------	C.3.4.3	--	--	--
			01539	00009	----------	C.3.4.4	--	--	--
	Blair, William	State of Utah	02637	00001A	----------	C.2.3.3	--	--	--
			02637	00001B	----------	C.2.8.2	--	--	--
			02637	00002	DC	C.3.2	--	--	--
			02637	00003	DC	C.7.2.4	--	--	--
			02637	00003A	DC	C.3.1.3	--	--	--
			02637	00004	DC	C.3.1.3	--	--	--
			02637	00005	DC	C.7.2.4	--	--	--
			02637	00006	DC	C.7.2.4	--	--	--
			02637	00007	DC	C.7.1.1.1	--	--	--
			02637	00008	DC	C.4.1.3.3	--	--	--
			02637	00009	DC	C.6.2	--	--	--
			02637	00010	DC	C.4.1.3.5	--	--	--
			02637	00011	DC	C.4.2.1	--	--	--
			02637	00012	DC	C.7.1.1.3	--	--	--
			02637	00013	DC	C.7.1.1.3	--	--	--
			02637	00014	DC	C.7.1.1.4	--	--	--
			02637	00015	DC	C.7.1.1.4	--	--	--
			02637	00016	DC	C.7.1.1.4	--	--	--
			02637	00017	DC	C.7.1.1.4	--	--	--
			02637	00018	DC	C.7.1.2	--	--	--
			02637	00019	DC	C.7.1.1.6	C.7.1.1.4	--	--
			02637	00020	DC	C.7.2.3	C.7.2.4	--	--
			02637	00021	----------	C.7.2.4	--	--	--
			02637	00022	DC	C.7.2.4	--	--	--
			02637	00023	----------	C.7.2.4	--	--	--
			02637	00024	DC	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
15LG, LM=13, Footer 47, Starting page number 258 through 311Utah (continued)									
			02637	00025	DC	C.7.2.4	C.7.3	--	--
			02637	00026	DC	C.7.2.4	--	--	--
			02637	00027	DC	C.7.2.4	C.7.3	--	--
			02637	00028	DC	C.7.5	--	--	--
			02637	00029	DC	C.7.5	--	--	--
			02637	00030	----------	C.2.7	--	--	--
			02637	00031	DC	C.3.1.3	--	--	--
			02637	00032	DC	C.3.3	--	--	--
			02637	00033	DC	C.3.3	C.7.2.4	--	--
			02637	00034	DC	C.3.3	C.7.2.4	--	--
			02637	00035	DC	C.4.1.3.1	--	--	--
			02637	00036	DC	C.4.1.3.1	--	--	--
			02637	00037	DC	C.4.1.3.1	--	--	--
			02637	00038	DC	C.4.1.3.1	--	--	--
			02637	00039	DC	C.4.1.3.1	--	--	--
			02637	00040	DC	C.4.1.3.1	--	--	--
			02637	00041	DC	C.4.1.3.3	--	--	--
			02637	00042	DC	C.4.1.3.5	--	--	--
			02637	00043	DC	C.4.1.3.5	--	--	--
			02637	00044	DC	C.4.1.3.5	--	--	--
			02637	00045	DC	C.4.1.3.5	--	--	--
			02637	00046	DC	C.4.1.3.5	--	--	--
			02637	00047	DC	C.4.1.3.5	--	--	--
			02637	00048	DC	C.4.1.4	--	--	--
			02637	00049	DC	C.4.1.5.2	--	--	--
			02637	00050	DC	C.4.1.2	--	--	--
			02637	00051	DC	C.4.2.3	--	--	--
			02637	00052	DC	C.4.2.3	--	--	--
			02637	00053	DC	C.7.1.1.4	--	--	--
			02637	00054	DC	C.7.1.1.4	C.7.1.1.5	--	--
			02637	00055	DC	C.7.1.1.6	--	--	--
			02637	00056	DC	C.7.1.1.6	--	--	--
			02637	00057	DC	C.7.1.1.1	--	--	--
			02637	00058	DC	C.7.1.1.4	--	--	--
			02637	00059	DC	C.7.1.1.4	--	--	--
			02637	00060	DC	C.7.1.1.4	--	--	--
			02637	00061	DC	C.7.1.1.4	--	--	--
			02637	00062	DC	C.7.1.1.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02637	00063	DC	C.7.1.1.3	--	--	--
			02637	00064	DC	C.7.1.1.4	--	--	--
			02637	00065	DC	C.7.1.1.4	--	--	--
			02637	00066	DC	C.7.1.1.3	--	--	--
			02637	00067	DC	C.7.1.1.4	C.7.1.1.3	--	--
			02637	00068	DC	C.7.1.1.4	--	--	--
			02637	00069	DC	C.7.1.1.4	--	--	--
			02637	00070	DC	C.7.1.1.4	--	--	--
			02637	00071	DC	C.7.1.1.4	--	--	--
			02637	00072	DC	C.7.1.1.4	C.7.1.1.3	--	--
			02637	00073	DC	C.7.1.1.4	--	--	--
			02637	00074	DC	C.7.1.1.4	--	--	--
			02637	00075	DC	C.7.1.1.3	C.7.1.1.4	--	--
			02637	00076	DC	C.7.1.1.3	C.7.1.1.4	--	--
			02637	00077	DC	C.7.1.1.3	C.7.1.1.4	--	--
			02637	00078	DC	C.7.1.1.5	--	--	--
			02637	00079	DC	C.7.1.1.4	--	--	--
			02637	00080	DC	C.7.1.1.4	--	--	--
			02637	00081	DC	C.7.1.1.4	--	--	--
			02637	00082	DC	C.7.1.1.4	--	--	--
			02637	00083	DC	C.7.1.1.4	--	--	--
			02637	00084	DC	C.7.1.1.4	--	--	--
			02637	00085	DC	C.7.1.1.4	--	--	--
			02637	00086	DC	C.7.1.1.4	--	--	--
			02637	00087	DC	C.7.1.1.4	--	--	--
			02637	00088	DC	C.7.1.1.4	--	--	--
			02637	00089	DC	C.7.1.1.4	--	--	--
			02637	00090	----------	C.7.1.1.4	--	--	--
			02637	00091	DC	C.7.1.1.4	--	--	--
			02637	00092	DC	C.4.1.3.5	C.7.2.4	--	--
			02637	00093	DC	C.4.1.3.5	--	--	--
			02637	00094	DC	C.4.1.3.5	--	--	--
			02637	00095	DC	C.7.1.1.4	--	--	--
			02637	00096	DC	C.7.1.1.4	--	--	--
			02637	00097	DC	C.7.1.1.4	--	--	--
			02637	00098	DC	C.7.1.1.4	--	--	--
			02637	00099	DC	C.7.1.1.4	--	--	--
			02637	00100	DC	C.7.1.1.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02637	00101	DC	C.7.1.1.4	--	--	--
			02637	00102	DC	C.7.1.1.4	--	--	--
			02637	00103	DC	C.7.1.1.4	--	--	--
			02637	00104	DC	C.7.1.1.4	--	--	--
			02637	00105	DC	C.7.1.1.4	--	--	--
			02637	00106	DC	C.7.1.1.4	--	--	--
			02637	00107	DC	C.7.1.1.4	--	--	--
			02637	00108	DC	C.7.1.1.4	--	--	--
			02637	00109	DC	C.7.1.1.4	--	--	--
			02637	00110	DC	C.7.1.1.4	--	--	--
			02637	00111	DC	C.7.1.1.4	--	--	--
			02637	00112	DC	C.7.1.1.6	--	--	--
			02637	00113	DC	C.7.1.1.9	--	--	--
			02637	00114	DC	C.7.1.1.9	--	--	--
			02637	00115	DC	C.7.1.2	--	--	--
			02637	00116	DC	C.7.1.1.3	--	--	--
			02637	00117	DC	C.7.1.1.4	--	--	--
			02637	00118	DC	C.7.1.1.4	--	--	--
			02637	00119	DC	C.7.1.1.4	--	--	--
			02637	00120	DC	C.7.1.1.4	C.7.1.1.9	--	--
			02637	00121	DC	C.7.1.1.4	C.7.1.1.9	--	--
			02637	00122	DC	C.7.1.1.4	--	--	--
			02637	00123	DC	C.7.1.1.6	--	--	--
			02637	00124	DC	C.7.1.1.9	--	--	--
			02637	00125	DC	C.7.1.1.4	C.7.1.1.6	C.7.1.1.9	--
			02637	00126	DC	C.7.1.1.4	C.7.1.1.6	--	--
			02637	00127	DC	C.7.1.1.9	--	--	--
			02637	00128	DC	C.4.3	--	--	--
			02637	00129	DC	C.7.2.1	--	--	--
			02637	00130	DC	C.7.2.1	--	--	--
			02637	00131	DC	C.7.2.3	--	--	--
			02637	00132	DC	C.7.2.3	--	--	--
			02637	00133	DC	C.7.2.3	--	--	--
			02637	00134	DC	C.7.2.3	--	--	--
			02637	00135	DC	C.7.2.4	--	--	--
			02637	00136	DC	C.7.2.4	--	--	--
			02637	00137	DC	C.7.2.4	--	--	--
			02637	00138	DC	C.7.2.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02637	00139	DC	C.7.2.4	--	--	--
			02637	00140	DC	C.7.2.4	--	--	--
			02637	00141	DC	C.7.2.4	--	--	--
			02637	00142	DC	C.7.2.4	--	--	--
			02637	00143	DC	C.7.2.4	--	--	--
			02637	00144	DC	C.7.2.4	--	--	--
			02637	00146	DC	C.7.2.4	--	--	--
			02637	00147	DC	C.7.2.4	--	--	--
			02637	00148	DC	C.7.2.4	--	--	--
			02637	00149	DC	C.7.2.4	--	--	--
			02637	00150	DC	C.7.2.4	--	--	--
			02637	00151	DC	C.7.4	--	--	--
			02637	00152	DC	C.7.4	C.7.2.4	--	--
			02637	00153	DC	C.7.2.3	--	--	--
			02637	00154	DC	C.7.2.4	--	--	--
			02637	00155	DC	C.7.2.4	--	--	--
			02637	00156	DC	C.7.2.4	--	--	--
			02637	00157	DC	C.7.3	--	--	--
			02637	00158	DC	C.7.3	--	--	--
			02637	00159	DC	C.4.3	--	--	--
			02637	00160	DC	C.7.2.3	--	--	--
			02637	00161	DC	C.7.2.4	--	--	--
			02637	00162	DC	C.7.2.4	--	--	--
			02637	00163	DC	C.7.2.4	C.7.3	--	--
			02637	00164	DC	C.7.2.6	--	--	--
			02637	00165	DC	C.7.2.3	--	--	--
			02637	00166	DC	C.7.3	--	--	--
			02637	00167	DC	C.7.4	--	--	--
			02637	00168	DC	C.7.2.4	--	--	--
			02637	00169	DC	C.7.2	C.7.1	--	--
			02637	00170	DC	C.7.2	--	--	--
			02637	00171	DC	C.7.1.1.9	--	--	--
			02637	00172	DC	C.7.2	--	--	--
			02637	00173	DC	C.7.2	--	--	--
			02637	00174	DC	C.7.2	C.7.1	C.7.1.1.4	C.7.2.4
			02637	00175	DC	C.7.2	--	--	--
			02637	00176	DC	C.7.2	--	--	--
			02637	00177	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02637	00178	DC	C.7.2	--	--	--
			02637	00179	DC	C.7.2	--	--	--
			02637	00180	DC	C.7.2	C.2.4	C.7.1.1.4	--
			02637	00181	DC	C.7.2	--	--	--
			02637	00182	DC	C.7.2	--	--	--
			02637	00183	DC	C.7.1	C.7.2	--	--
			02637	00184	DC	C.7.2	--	--	--
			02637	00185	DC	C.7.2	--	--	--
			02637	00186	DC	C.7.2	--	--	--
			02637	00187	DC	C.7.2	--	--	--
			02637	00188	DC	C.7.3	--	--	--
			02637	00189	DC	C.7.2	--	--	--
			02637	00190	DC	C.7.3	--	--	--
			02637	00191	----------	C.3.4.2	--	--	--
			02637	00192	----------	C.3.4.2	--	--	--
			02637	00193	----------	C.3.4.2	--	--	--
			02637	00194	----------	C.3.4.2	--	--	--
	Bleiweiss, David		00142	00001	----------	C.3.4.4	--	--	--
	Boddie, Richard		02239	00001	----------	C.3.4.4	--	--	--
	Bortz, Steve		00934	00001	DC	C.7.4	--	--	--
			00934	00002	----------	C.3.1.2	--	--	--
			00934	00003	----------	C.3.1.2	--	--	--
	Boyer, Mark		02230	00001	----------	C.3.4.4	--	--	--
			02230	00002	DC	C.7.4.2	--	--	--
			02230	00003	DC	C.4.1.1	--	--	--
			02230	00004	DC	C.5.1	--	--	--
			02230	00005	DC	C.5.1	--	--	--
			02230	00006	DC	C.7.3	--	--	--
			02230	00007	DC	C.7.2.5	--	--	--
			02230	00008	DC	C.7.2.5	--	--	--
			02230	00009	DC	C.7.3	--	--	--
	Broman, Bruce		00542	00001	----------	C.3.1.2	--	--	--
			00542	00002	DC	C.7.2	--	--	--
			00542	00003	DC	C.7.2	--	--	--
	Brown, Cheryl Oberhansley		00465	00001	DC	C.7.2	--	--	--
	Brown, Brenda		02242	00001	----------	C.3.1.2	--	--	--
	Brunvand, Amy		00338	00001	DC	C.4.1.3.5	--	--	--
			00338	00002	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00338	00003	----------	C.3.1.2	--	--	--
	Bryan, Julie		00771	00001	DC	C.3.1.2	C.3.1.3	--	--
			00771	00002	----------	C.3.1.2	--	--	--
			00771	00003	DC	C.3.1.2	C.3.1.3	--	--
	Bryan, Julie		01237	00001	----------	C.2.2.1	--	--	--
			01237	00002	----------	C.3.1.2	--	--	--
			01237	00003	DC	C.3.1.2	C.3.1.3	--	--
			01237	00004	DC	C.3.1.2	C.3.1.3	--	--
	Budig, Michael		00779	00001	----------	C.3.1.2	--	--	--
			00779	00002	DC	C.7.2	--	--	--
			00779	00003	----------	C.3.1.2	--	--	--
			00779	00004	----------	C.3.4.4	--	--	--
			00779	00005	----------	C.2.1.1	--	--	--
			00779	00006	----------	C.3.4.4	--	--	--
	Budig, Michael		02206	00001	----------	C.3.1.2	--	--	--
			02206	00002	----------	C.2.1.1	--	--	--
			02206	00003	----------	C.3.4.4	--	--	--
	Budig, Michael	Wasatch Mountain Club	00486	00001	DC	C.7.2.4	--	--	--
			00486	00002	DC	C.7.1.1	--	--	--
			00486	00003	DC	C.7.2.4	--	--	--
			00486	00004	----------	C.3.4.4	--	--	--
			00486	00005	----------	C.3.1.2	--	--	--
	Catlin, James		00785	00001	----------	C.3.1.2	--	--	--
			00785	00004	----------	C.3.1.2	--	--	--
			00785	00005	----------	C.3.1.2	--	--	--
	Catlin, James	Utah Chapter of the Sierra Club	02210	00001	----------	C.3.4.4	--	--	--
			02210	00002	DC	C.7.2	--	--	--
			02210	00003	DC	C.7.2	--	--	--
			02210	00005	DC	C.7.2	--	--	--
			02210	00006	----------	C.3.1.2	--	--	--
	Cederquist, John		00786	00001	----------	C.3.1.2	--	--	--
			00786	00002	----------	C.3.1.2	--	--	--
			00786	00003	DC	C.3.1.2	C.3.1.3	--	--
			00786	00004	----------	C.3.1.2	--	--	--
	Cederquist, John		02211	00001	----------	C.3.1.2	--	--	--
			02211	00002	----------	C.3.1.2	--	--	--
			02211	00003	----------	C.3.1.2	--	--	--
			02211	00004	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Chalmers, Diana		01343	00001	----------	C.3.4.4	--	--	--
			01343	00002	DC	C.5.1	C.7.2.8	--	--
			01343	00003	DC	C.7.1.1.6	--	--	--
			01343	00004	DC	C.4.1	--	--	--
			01343	00005	----------	C.2.4.1	--	--	--
			01343	00006	----------	C.3.1.2	--	--	--
	Chesler, Bruce		00303	00001	----------	C.3.1.2	--	--	--
			00303	00002	----------	C.3.2	--	--	--
			00303	00003	DC	C.7.3	--	--	--
			00303	00004	DC	C.7.2.6	--	--	--
			00303	00005	DC	C.7.2	--	--	--
			00303	00006	DC	C.7.2	--	--	--
			00303	00007	DC	C.4.1.1	--	--	--
			00303	00008	----------	C.3.2	--	--	--
	Chinn, Doug and Terrie		02662	00001	----------	C.3.4.4	--	--	--
			02662	00002	DC	C.7.1.2	C.7.4	--	--
			02662	00003	DC	C.7.1.1.5	C.7.2.5	--	--
			02662	00004	DC	C.7.4.2	C.7.1.2	--	--
	Clark, Douglas		00541	00001	----------	C.3.1.2	--	--	--
			00541	00002	DC	C.7.2	--	--	--
			00541	00003	DC	C.4.1.3.4	--	--	--
			00541	00004	DC	C.7.2.3	--	--	--
	Coley, Phyllis		00825	00001	----------	C.3.1.2	--	--	--
			00825	00002	DC	C.7.2.4	C.7.2.5	--	--
			00825	00003	DC	C.7.1.1.5	--	--	--
			00825	00004	DC	C.7.1.1.4	C.7.2.4	--	--
			00825	00005	DC	C.7.2.4	--	--	--
			00825	00006	----------	C.3.1.2	--	--	--
			00825	00007	DC	C.7.2.2	--	--	--
			00825	00008	----------	C.3.1.2	--	--	--
			00825	00009	----------	C.3.1.2	--	--	--
	Comstock, Johnston		00826	00001	DC	C.7.2.4	--	--	--
			00826	00002	----------	C.3.1.2	--	--	--
			00826	00003	DC	C.7.2.4	--	--	--
			00826	00004	DC	C.7.2.4	--	--	--
	Connor, Jeff		00740	00001	----------	C.2.8.3	--	--	--
			00740	00002	----------	C.3.1.2	--	--	--
			00740	00003	DC	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Cowley, Jill		00392	00001	DC	C.7.2.4	--	--	--
			00392	00002	DC	C.7.4	--	--	--
			00392	00003	DC	C.7.2.4	--	--	--
	Cowley, Jill		02231	00001	----------	C.3.1.2	--	--	--
			02231	00002	DC	C.7.2.4	C.7.4.2	--	--
			02231	00003	DC	C.7.2.4	--	--	--
			02231	00004	DC	C.7.2.4	C.7.4.2	--	--
			02231	00005	DC	C.7.1.1.6	C.7.2.6	--	--
	Craig, Lois		00288	00001	DC	C.7.2	--	--	--
	Crane, Ryan		00791	00001	----------	C.2.8.2	--	--	--
			00791	00002	----------	C.2.8.1	--	--	--
	Crockett, Rebecca A.		00487	00001	DC	C.7.1.1.4	--	--	--
			00487	00002	DC	C.7.2.4	--	--	--
			00487	00003	DC	C.6.5	--	--	--
	Cumings, Coreen		00801	00001	----------	C.3.1.2	--	--	--
			00801	00002	----------	C.2.3.3	--	--	--
			00801	00003	DC	C.7.2.4	--	--	--
			00801	00004	DC	C.7.2.4	C.7.4.1	--	--
			00801	00005	DC	C.3.1.2	C.3.1.3	--	--
	Cummings,		02260	00005	DC	C.2.7	--	--	--
	Day, Glenn		00736	00001	----------	C.3.4.4	--	--	--
	DeLong, Scott M.		01333	00001	----------	C.3.1.2	--	--	--
			01333	00002	DC	C.7.2.4	--	--	--
			01333	00003	DC	C.7.2.5	--	--	--
			01333	00004	DC	C.7.2.4	--	--	--
			01333	00005	----------	C.3.1.2	--	--	--
			01333	00006	----------	C.3.1.2	--	--	--
		Earth First	00784	00001	----------	C.3.1.2	--	--	--
			00784	00002	----------	C.2.1.1	--	--	--
			00784	00003	----------	C.3.1.2	--	--	--
	Dervage, Sara		00811	00001	----------	C.3.1.2	--	--	--
			00811	00002	DC	C.7.2.5	--	--	--
			00811	00003	DC	C.7.1.1.5	--	--	--
			00811	00004	DC	C.7.1.1.5	C.7.2.5	--	--
			00811	00005	DC	C.7.1.1.5	--	--	--
			00811	00006	DC	C.7.1.1.5	C.7.2.5	--	--
			00811	00007A	DC	C.4.1.3	C.7.2	--	--
			00811	00007B	DC	C.7.2.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00811	00008	----------	C.3.1.2	--	--	--
	Donaldson, Christie		01085	00002	DC	C.7.2.2	--	--	--
			01085	00003	DC	C.7.2.8	C.5.1	--	--
			01085	00004	DC	C.5.1	--	--	--
			01085	00005A	DC	C.7.2.3	--	--	--
			01085	00005B	DC	C.7.2.5	--	--	--
			01085	00005C	DC	C.7.2.4	--	--	--
			01085	00006	DC	C.7.2	--	--	--
			01085	00007	DC	C.7.2.6	--	--	--
	Dondero, Thalia M.	Clark Cty Board of Commisioners	02089	00001	----------	C.2.1.2	--	--	--
	Dorsey, Bryan		00103	00001	----------	C.3.1.2	--	--	--
			00103	00002	----------	C.3.1.2	--	--	--
	Dougherty, Nina		00554	00001	----------	C.3.4.4	--	--	--
	Dudek, Robert		00724	00001	DC	C.7.3	--	--	--
			00724	00002	----------	C.3.1.2	--	--	--
			00724	00003	DC	C.7.2.4	--	--	--
	Dudek, Robert A.	Utahns Against the Dump	02095	00001	DC	C.7.3	--	--	--
			02095	00002	----------	C.3.1.2	--	--	--
			02095	00003	DC	C.7.2.4	--	--	--
	Duffy, & Hall, Christopher & Brad	Utah State University	01498	00001	DC	C.4.1.2.2	--	--	--
			01498	00002	DC	C.4.1.2.2	--	--	--
			01498	00003	DC	C.5.1	C.4.1.2.2	--	--
			01498	00004	DC	C.4.1.2.2	--	--	--
			01498	00005	DC	C.4.1.2.2	--	--	--
			01498	00006	DC	C.4.1.2.2	--	--	--
			01498	00007	DC	C.4.1.2.2	--	--	--
			01498	00008	DC	C.4.1.2.2	--	--	--
			01498	00009	DC	C.4.1.2.2	--	--	--
			01498	00010	DC	C.4.1.2.2	--	--	--
			01498	00011	DC	C.4.1.2.2	--	--	--
			01498	00012	DC	C.4.1.2.2	--	--	--
			01498	00013	DC	C.4.1.2.2	--	--	--
			01498	00014	DC	C.4.1.2.2	--	--	--
			01498	00015	DC	C.4.1.2.2	--	--	--
			01498	00016	DC	C.5.1	C.4.1.2.2	--	--
			01498	00017	DC	C.5.1	C.4.1.2.2	--	--
			01498	00018	DC	C.4.1.2.2	--	--	--
			01498	00019	DC	C.4.1.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01498	00020	----------	C.5.1	C.4.1.2.2	--	--
			01498	00021	DC	C.4.1.2.2	--	--	--
			01498	00022	DC	C.4.1.2.2	--	--	--
			01498	00023	DC	C.4.1.2.2	C.5.1	--	--
			01498	00024	DC	C.4.1.2.2	C.5.1	--	--
			01498	00025	DC	C.5.1	C.7.4.3	--	--
			01498	00026	DC	C.4.1.2.2	--	--	--
			01498	00027	----------	C.5.1	C.4.1.2.2	--	--
			01498	00028	DC	C.5.1	C.4.1.2.2	--	--
			01498	00029	DC	C.4.1.2.2	--	--	--
	Eberhardt, Janice		02672	00001	----------	C.2.7	--	--	--
			02672	00002	DC	C.2.7	--	--	--
			02672	00003	DC	C.2.7	--	--	--
			02672	00004	----------	C.2.7	--	--	--
	Elegante, John C.		00474	00001	DC	C.4.1.3.5	--	--	--
			00474	00002	DC	C.3.1.3	--	--	--
			00474	00003	DC	C.7.1.1	--	--	--
			00474	00004	DC	C.7.2	--	--	--
			00474	00005A	DC	C.7.2	--	--	--
			00474	00005B	DC	C.7.3	--	--	--
			00474	00005C	DC	C.7.2	--	--	--
			00474	00006	DC	C.7.4	--	--	--
			00474	00007	DC	C.5.1	--	--	--
			00474	00008	DC	C.3.1.3	--	--	--
			00474	00009	DC	C.6.5	--	--	--
			00474	00010	DC	C.7.2.4	--	--	--
			00474	00011	----------	C.3.1.2	--	--	--
			00474	00012	DC	C.7.4	--	--	--
			00474	00013	DC	C.5.10	--	--	--
	Elrod, Dale		01297	00001	----------	C.3.1.2	--	--	--
			01297	00002	DC	C.7.1.1	--	--	--
			01297	00003	DC	C.7.3	C.5.1	--	--
			01297	00004	DC	C.7.2	--	--	--
			01297	00005	DC	C.7.1.1.8	C.7.2.8	--	--
			01297	00006	DC	C.7.1.1.6	C.7.2.6	--	--
			01297	00007	DC	C.7.1.1.4	C.7.2.4	C.4.1.3.6	--
	Emmerich, Kevin		00090	00001	----------	C.3.4.4	--	--	--
			00090	00002	DC	C.7.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00090	00003	DC	C.7.4	--	--	--
	Erickson, Steve		00776	00001	----------	C.2.6.1	--	--	--
			00776	00002	----------	C.2.1.3	--	--	--
			00776	00003	----------	C.2.6.1	--	--	--
			00776	00004	----------	C.2.4.1	--	--	--
			00776	00005	----------	C.2.1.1	--	--	--
			00776	00006	----------	C.2.6.1	--	--	--
	Ernstsen, Jerriam		02237	00001	----------	C.3.1.2	--	--	--
	Evans, David K.		02228	00001	----------	C.2.8.2	--	--	--
			02228	00002	----------	C.2.8.1	--	--	--
	Fawn, Jessica		00731	00001	----------	C.2.1.5	--	--	--
			00731	00002	DC	C.7.2.4	--	--	--
			00731	00003	----------	C.3.4.4	--	--	--
	Fernley, Norma M.		00251	00001	DC	C.3.1.3	--	--	--
			00251	00002	DC	C.5.1	--	--	--
			00251	00003	DC	C.4.1.3.4	--	--	--
			00251	00004	DC	C.7.4	--	--	--
			00251	00005	DC	C.7.2	--	--	--
	Flint, Steve		01058	00001	----------	C.3.4.4	--	--	--
			01058	00002	DC	C.7.1.1	--	--	--
			01058	00003	DC	C.7.2.5	--	--	--
			01058	00004	DC	C.4.1.2.2	--	--	--
			01058	00005	----------	C.2.3.3	--	--	--
	Floor, Jeffrey		00778	00001	----------	C.3.1.2	--	--	--
			00778	00002	----------	C.3.1.2	--	--	--
	Floor, Jeffrey		02205	00001	----------	C.3.1.2	--	--	--
			02205	00002	----------	C.3.1.2	--	--	--
	Forney, Ellen		00793	00001	DC	C.4.1.5	--	--	--
			00793	00002	DC	C.5.11	--	--	--
	Frear, Ruth		00792	00001	----------	C.3.1.2	--	--	--
			00792	00002	DC	C.7.1	--	--	--
			00792	00003	DC	C.4.1.3.3	C.7.2.3	C.7.1.1.3	--
			00792	00004	DC	C.7.1.1.4	C.7.2.4	--	--
			00792	00005	DC	C.7.1.1.6	C.4.1.3.6	C.7.2.6	--
			00792	00006	DC	C.7.1.1.6	C.4.1.3.6	--	--
			00792	00007	DC	C.7.2.5	C.7.1.1.5	--	--
			00792	00008	DC	C.7.2.4	C.7.1.1.4	C.4.1.3.5	--
			00792	00009	DC	C.4.1.3.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Frear, Ruth A.		02214	00001	----------	C.3.1.2	--	--	--
			02214	00002	DC	C.4.1	--	--	--
			02214	00003	DC	C.7.2.3	C.7.1.1.3	--	--
			02214	00004	DC	C.4.1.3.3	C.7.2.3	C.7.1.1.3	--
			02214	00005	DC	C.7.1.1.6	C.4.1.3.6	C.7.2.6	--
			02214	00006	DC	C.4.1.3.4	C.7.1.1.5	C.7.2.5	--
			02214	00007	DC	C.4.1.3.4	--	--	--
			02214	00008	DC	C.7.2.4	C.7.1.1.4	C.4.1.3.5	--
			02214	00009	DC	C.7.2.4	--	--	--
			02214	00010	DC	C.7.2.4	--	--	--
			02214	00011	DC	C.7.1	--	--	--
			02214	00012	DC	C.7.1.1	--	--	--
			02214	00013	----------	C.3.1.2	--	--	--
			02214	00014	DC	C.7.3	C.7.2.4	C.7.2.5	--
			02214	00015	DC	C.4.3	C.5.11	--	--
			02214	00016	DC	C.7.2.4	--	--	--
			02214	00017	DC	C.3.1.3	--	--	--
	Galbraith, Milton E. & Audrey		00126	00001	----------	C.3.4.4	--	--	--
	Galway, Lewis		00830	00001	----------	C.3.1.2	--	--	--
			00830	00002	----------	C.2.8.2	--	--	--
			00830	00003	----------	C.3.4.4	--	--	--
			00830	00004	----------	C.2.8.2	--	--	--
			00830	00005	----------	C.3.1.2	--	--	--
	Gelatt, Lee		00725	00001A	DC	C.7.1.1	--	--	--
			00725	00001B	DC	C.3.1.3	--	--	--
	Glynn & Breisch, Karen & Stuart		01294	00001	DC	C.7.4	--	--	--
			01294	00002	----------	C.3.4.4	--	--	--
			01294	00003	----------	C.2.6.1	--	--	--
			01294	00004	----------	C.3.4.4	--	--	--
	Goff, Robert D.		01350	00001	----------	C.2.7	--	--	--
			01350	00002	----------	C.2.8.2	--	--	--
			01350	00003	----------	C.2.6.1	--	--	--
			01350	00004	----------	C.3.1.2	--	--	--
			01350	00005	DC	C.4.1.2.1	--	--	--
			01350	00006	DC	C.7.2.7	--	--	--
			01350	00007	DC	C.7.2.4	C.7.2.5	--	--
	Goodtimes, Art		00929	00001	----------	C.3.1.2	--	--	--
			00929	00002	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00929	00003	DC	C.7.2.4	--	--	--
			00929	00004	----------	C.3.4.4	--	--	--
			00929	00005	DC	C.7.3	--	--	--
	Goodwin, Russ		00759	00001	----------	C.2.3.3	--	--	--
			00759	00002	----------	C.2.3.3	--	--	--
			00759	00003	----------	C.2.8.2	--	--	--
	Goodwin, Russell		01224	00001	----------	C.3.1.2	--	--	--
			01224	00002	----------	C.2.7	--	--	--
			01224	00003	----------	C.3.1.2	--	--	--
			01224	00004	----------	C.2.8.2	--	--	--
	Goodwin, Russell		02194	00001	----------	C.2.3.3	--	--	--
			02194	00002	----------	C.2.3.1	--	--	--
			02194	00003	----------	C.2.3.3	--	--	--
			02194	00004	----------	C.2.8.1	--	--	--
			02194	00005	----------	C.2.8.2	--	--	--
	Gosselin, Gilles		00744	00001	----------	C.3.4.4	--	--	--
			00744	00002	DC	C.7.3	--	--	--
	Graham, Audrey		00741	00001	----------	C.3.1.2	--	--	--
			00741	00002	DC	C.7.2.4	--	--	--
			00741	00003	DC	C.7.4.2	--	--	--
			00741	00004	----------	C.2.8.3	--	--	--
	Graham, Audrey & Tim		01171	00001	----------	C.2.3.3	--	--	--
			01171	00002	----------	C.2.7	--	--	--
			01171	00003	DC	C.4.1.5.1	--	--	--
			01171	00004	----------	C.2.7	--	--	--
			01171	00005	----------	C.3.1.1	--	--	--
			01171	00006	DC	C.4.1.3.1	--	--	--
			01171	00007	DC	C.7.2.5	--	--	--
			01171	00008	DC	C.4.1.1.5	--	--	--
			01171	00009	DC	C.7.1.1	--	--	--
			01171	00010A	DC	C.7.4	--	--	--
			01171	00010B	DC	C.7.2.4	--	--	--
			01171	00011A	DC	C.7.4	C.7.1.1.4	C.7.2.4	--
			01171	00011B	DC	C.7.2.1	--	--	--
	Graham, Tim		02253	00001	----------	C.3.1.2	--	--	--
			02253	00002	DC	C.7.2.4	--	--	--
			02253	00003	DC	C.4.1.1.5	C.5.7	--	--
	Grandy, Lawrence		00795	00001	DC	C.7.2.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Greenberg, Robert		00743	00001	DC	C.4.1.5.4	--	--	--
			00743	00002	DC	C.4.1.5.4	--	--	--
			00743	00003	DC	C.7.4.2	--	--	--
			00743	00004	DC	C.7.1.2	--	--	--
			00743	00005	DC	C.7.1.2	C.7.4.4	--	--
			00743	00006	DC	C.7.4.4	C.7.4.2	--	--
			00743	00007	DC	C.7.4.2	--	--	--
			00743	00011A	DC	C.7.4	--	--	--
			00743	00011B	DC	C.7.4	--	--	--
			00743	00013	DC	C.7.1.2	--	--	--
	Greenhalgh, Jennifer L.		01582	00001	DC	C.7.4.2	--	--	--
			01582	00002	DC	C.7.1	C.7.2.2	--	--
			01582	00003	----------	C.3.1.2	--	--	--
			01582	00004	----------	C.3.1.2	--	--	--
	Greenwalt, Tami R.		00109	00001	----------	C.3.4.4	--	--	--
			00109	00003	DC	C.7.2	--	--	--
			00109	00004	DC	C.7.2	--	--	--
	Grizzard, James		00757	00001	----------	C.3.1.2	--	--	--
			00757	00002	----------	C.3.1.2	--	--	--
			00757	00003	DC	C.7.4	--	--	--
			00757	00004	----------	C.2.3.1	--	--	--
	Guinn, E. P.		00320	00001	----------	C.3.1.2	--	--	--
			00320	00002	----------	C.3.4.4	--	--	--
			00320	00003	DC	C.7.2	--	--	--
	Haggard, Lois M.		00460	00001	----------	C.3.4.4	--	--	--
			00460	00002	DC	C.7.1.1	C.7.2	--	--
			00460	00003	DC	C.4.1.2.2	--	--	--
			00460	00004	DC	C.7.2.5	--	--	--
	Haines, Octavia		00297	00001A	DC	C.7.4	--	--	--
			00297	00001B	DC	C.7.2	--	--	--
	Harden, et al., R.	Div of Oil, Gas and Mining	02635	00001	DC	C.4.1.1.9	C.7.2.1	--	--
			02635	00002	DC	C.7.2	--	--	--
			02635	00003	DC	C.4.2.2	--	--	--
			02635	00004A	DC	C.4.2.3	--	--	--
			02635	00004B	DC	C.4.1.1.9	--	--	--
			02635	00005	DC	C.4.1.1.9	--	--	--
			02635	00006	DC	C.4.2.2	--	--	--
			02635	00007	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02635	00008	DC	C.7.2	--	--	--
			02635	00009	DC	C.4.3	--	--	--
			02635	00010	DC	C.7.1.1	C.7.2	--	--
			02635	00011	DC	C.4.2.2	--	--	--
			02635	00012	DC	C.7.1.1	C.7.2	--	--
			02635	00013	DC	C.7.2	--	--	--
			02635	00014	----------	C.2.3.3	--	--	--
			02635	00015	DC	C.4.2.3	--	--	--
			02635	00016	DC	C.4.2.3	--	--	--
			02635	00017	DC	C.4.2.3.	--	--	--
			02635	00018	DC	C.4.2.3	--	--	--
			02635	00019	DC	C.4.2.3	--	--	--
			02635	00020	DC	C.4.3	--	--	--
			02635	00021	DC	C.4.1.1.9	--	--	--
			02635	00022	DC	C.4.1.1.9	C.7.2.2	--	--
			02635	00023	DC	C.7.2.1	C.7.2.2	--	--
			02635	00024	DC	C.7.2.8	--	--	--
			02635	00025	DC	C.4.3	--	--	--
			02635	00026	DC	C.4.2.2	--	--	--
			02635	00027	DC	C.4.2.2	--	--	--
			02635	00028	DC	C.4.3	--	--	--
			02635	00029	DC	C.4.3	--	--	--
			02635	00030	DC	C.4.3	--	--	--
			02635	00031	DC	C.7.2.1	--	--	--
			02635	00032	DC	C.7.2.2	--	--	--
			02635	00033	DC	C.7.2.2	C.7.1.1.2	--	--
			02635	00034	DC	C.7.3	--	--	--
			02635	00035	DC	C.7.2.2	--	--	--
			02635	00036	DC	C.7.2.2	--	--	--
			02635	00037	DC	C.7.2.2	--	--	--
			02635	00038	DC	C.7.2.2	C.7.3	--	--
			02635	00039	DC	C.4.1.3.2	--	--	--
			02635	00040	----------	C.2.1.3	--	--	--
			02635	00041	DC	C.7.2.2	--	--	--
	Harris, L. Kay		02245	00001	----------	C.3.4.4	--	--	--
	Hatch, Garn		00221	00001	DC	C.7.2	--	--	--
	Hatch, Garn		00827	00001	DC	C.7.4	C.7.2.4	--	--
			00827	00002	DC	C.7.2.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00827	00003	DC	C.7.2.4	--	--	--
			00827	00004	DC	C.7.2.4	--	--	--
	Haun, Matthew		01154	00001	DC	C.7.4.1	--	--	--
			01154	00002	DC	C.7.1	--	--	--
	Hazen, Gary		00733	00001	----------	C.3.4.4	--	--	--
			00733	00002	----------	C.3.1.2	--	--	--
	Heldon, Karen		00824	00001	----------	C.2.8.2	--	--	--
			00824	00002	----------	C.2.8.2	--	--	--
			00824	00003	DC	C.5.2	--	--	--
			00824	00004	----------	C.2.4.2	--	--	--
			00824	00005	DC	C.5.3	C.5.11	--	--
			00824	00006	DC	C.5.11	--	--	--
			00824	00007	DC	C.5.11	--	--	--
			00824	00008	----------	C.2.1.1	--	--	--
	Henrie, Dr. James Russell		02233	00001	----------	C.3.4.4	--	--	--
	Hines, Alesia		00235	00001	DC	C.7.2	--	--	--
			00235	00002	DC	C.7.1.1.4	--	--	--
			00235	00003	DC	C.7.2	--	--	--
			00235	00004	DC	C.7.2.6	--	--	--
			00235	00005	DC	C.7.4	--	--	--
	Holland, Dorothy		00043	00001	DC	C.7.2	--	--	--
			00043	00002	DC	C.7.2	--	--	--
			00043	00003	DC	C.7.2	--	--	--
	Hollinbeck, Rick		00930	00001	----------	C.3.1.2	--	--	--
	Holly, Troy		00804	00001	----------	C.3.1.2	--	--	--
			00804	00002	----------	C.3.1.2	--	--	--
			00804	00003	DC	C.5.7	--	--	--
			00804	00004	----------	C.3.1.2	--	--	--
			00804	00005	DC	C.5.11	--	--	--
	Holt, Donna		02251	00001	----------	C.3.4.4	--	--	--
			02251	00002	DC	C.7.2.4	--	--	--
	Howard, Councilmember		02090	00001	----------	C.2.1.2	--	--	--
	Hoyal, Christina H.	Hoyal Construction, Inc.	00108	00001	----------	C.3.4.4	--	--	--
			00108	00002	----------	C.3.1.2	--	--	--
			00108	00003A	DC	C.7.2	--	--	--
			00108	00003B	DC	C.7.1.1	--	--	--
			00108	00004	----------	C.2.8.1	--	--	--
			00108	00005	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Hunt, Jeffrey M.		00553	00001	----------	C.3.1.2	--	--	--
			00553	00002	DC	C.4.1.3	--	--	--
			00553	00003	DC	C.3.2	--	--	--
			00553	00004	DC	C.7.2	--	--	--
			00553	00005	DC	C.7.2	--	--	--
	Isenberg, June/		00356	00001	----------	C.3.4.4	--	--	--
	Ison, Daniel K.	AB City Policy Department	02093	00001	DC	C.4.1.5.4	--	--	--
			02093	00002	DC	C.4.1.5.4	--	--	--
	Ives, Jeff		01534	00001	----------	C.3.1.2	--	--	--
			01534	00002	----------	C.3.1.2	--	--	--
			01534	00003	----------	C.3.4.4	--	--	--
	Jablouski, Mike		00774	00001	DC	C.7.1.1.5	C.7.2.5	--	--
			00774	00002	DC	C.7.1.1.5	C.7.2.5	--	--
			00774	00003	DC	C.7.1.1.4	C.7.2.4	--	--
			00774	00004	----------	C.3.4.4	--	--	--
			00774	00005	----------	C.3.1.2	--	--	--
	Jacob, Jerry R.		01600	00001	DC	C.7.1.2	C.7.4.2	C.4.1.5	--
			01600	00002	DC	C.7.1.2	C.7.4.2	--	--
			01600	00003	DC	C.4.1.5.2	C.7.1.2	C.7.4.2	--
			01600	00004	DC	C.4.1.5.4	C.7.4.4	C.7.1.4	--
			01600	00005	DC	C.4.1.5.4	C.7.1.2	C.7.4.4	--
			01600	00006	DC	C.4.1.5.2	C.7.1.2	C.7.4.2	--
			01600	00007	DC	C.4.1.3.1	C.7.1.1.1	C.7.2.1	--
			01600	00008	DC	C.7.1.1	C.7.2	--	--
			01600	00009	DC	C.7.4	--	--	--
			01600	00010	DC	C.7.4	C.7.2.2	--	--
			01600	00011	DC	C.7.4.3	--	--	--
			01600	00012	DC	C.7.1.1.3	C.7.2.3	C.7.2.4	--
			01600	00013	DC	C.7.1.1.4	C.7.2.4	--	--
			01600	00014	DC	C.7.1.1.4	C.7.2.4	--	--
			01600	00015	DC	C.7.1.1	C.7.2	--	--
			01600	00016	----------	C.2.7	--	--	--
	Jenkins, McDonald, Richard & Vicky		01069	00001	----------	C.3.4.4	--	--	--
			01069	00002	DC	C.7.4	--	--	--
	Jensen, Steven		00829	00002	----------	C.3.1.2	--	--	--
			00829	00003	----------	C.2.8.3	--	--	--
			00829	00005	----------	C.2.8.3	--	--	--
			00829	00006	DC	C.3.1.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00829	00007	----------	C.3.1.2	--	--	--
			00829	00008	----------	C.3.1.2	--	--	--
			00829	00009	----------	C.3.1.2	--	--	--
			00829	00010	DC	C.5.1	--	--	--
			00829	00011	----------	C.3.4.4	--	--	--
			00829	00012	----------	C.3.4.4	--	--	--
	Jewett, Lawrence		00770	00001	----------	C.3.1.2	--	--	--
			00770	00002	DC	C.4.1.3.3	--	--	--
			00770	00003	DC	C.7.1.1.3	C.7.2.3	--	--
			00770	00004	DC	C.4.1.3.3	--	--	--
			00770	00005	DC	C.7.1.1.3	--	--	--
			00770	00006	DC	C.7.1.1.5	--	--	--
			00770	00007	DC	C.7.1.1.5	--	--	--
			00770	00008	DC	C.7.1.1.4	--	--	--
			00770	00009	----------	C.3.1.2	--	--	--
			00770	00010	DC	C.7.4	--	--	--
	Jewett, Lawrence		02202	00001	----------	C.3.2	--	--	--
			02202	00002	DC	C.4.1.3.3	--	--	--
			02202	00003	DC	C.7.1.1.3	C.7.2.3	--	--
			02202	00004	DC	C.4.1.3.3	--	--	--
			02202	00005	DC	C.7.1.1.3	--	--	--
			02202	00006	DC	C.4.1.3.4	--	--	--
			02202	00007	DC	C.7.1.1.5	--	--	--
			02202	00008	DC	C.7.1.1.4	--	--	--
			02202	00009	----------	C.3.1.2	--	--	--
			02202	00010	DC	C.7.4	--	--	--
	Johnson, Michael A.		00614	00001	----------	C.3.4.4	--	--	--
			00614	00002	----------	C.3.4.4	--	--	--
			00614	00003	----------	C.2.4.1	--	--	--
			00614	00004	DC	C.7.2.8	--	--	--
			00614	00005	DC	C.7.2.5	--	--	--
			00614	00006	DC	C.7.2	--	--	--
			00614	00007	DC	C.7.2.6	--	--	--
			00614	00008	----------	C.3.1.2	--	--	--
	Jorgensen, David M.		00552	00001	----------	C.3.2	--	--	--
			00552	00002	DC	C.7.4	--	--	--
			00552	00003	DC	C.7.2	--	--	--
			00552	00004	----------	C.2.2.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00552	00005	----------	C.3.1.2	--	--	--
			00552	00006	DC	C.7.2	--	--	--
			00552	00007	DC	C.7.2	C.7.1	--	--
			00552	00008	DC	C.3.2	--	--	--
			00552	00009	DC	C.7.2	--	--	--
			00552	00010	DC	C.7.2	--	--	--
			00552	00011	DC	C.7.2	--	--	--
			00552	00012	DC	C.3.2	--	--	--
	Jorgensen, David		00828	00001	----------	C.3.1.2	--	--	--
			00828	00002	DC	C.7.2.4	C.7.2.5	--	--
			00828	00003	----------	C.3.1.2	--	--	--
			00828	00004	----------	C.3.1.2	--	--	--
			00828	00006	----------	C.3.1.2	--	--	--
	Karkut, James		00805	00001	----------	C.2.3.1	--	--	--
			00805	00002	----------	C.3.2	--	--	--
			00805	00003	DC	C.4.1.3.4	C.7.1.1.5	C.7.2.5	--
			00805	00004	DC	C.7.2	--	--	--
			00805	00005	DC	C.7.4	C.4.1.1.5	--	--
			00805	00006	DC	C.4.1.5	--	--	--
			00805	00007	----------	C.3.4.4	--	--	--
	Kelleher, Mark		02249	00001	----------	C.3.4.4	--	--	--
	Kelling, Mitch	Grand Co. Econ. Dev. Council	00009	00001	----------	C.2.1.1	--	--	--
	Keyser, Esther		00723	00001	DC	C.7.3	--	--	--
	Kinnersley, Blanche		02219	00001	----------	C.3.4.4	--	--	--
			02219	00002	DC	C.4.1.3.4	C.7.1.1.5	C.7.2.5	--
			02219	00003	DC	C.4.1.5	C.7.4	--	--
			02219	00004	DC	C.4.1.5	C.7.4	--	--
			02219	00005	----------	C.3.1.2	--	--	--
	Kirschner, Mike		00813	00001	----------	C.3.1.2	--	--	--
			00813	00002	DC	C.4.1.3	C.7.2	--	--
			00813	00003	DC	C.7.1.1.5	C.7.2.5	--	--
			00813	00004	DC	C.7.1.1.4	C.7.2.4	--	--
			00813	00005	DC	C.7.2.4	--	--	--
			00813	00006	DC	C.7.2.4	--	--	--
			00813	00007	----------	C.3.1.2	--	--	--
			00813	00008	DC	C.7.5	--	--	--
	Kitchell, Kate ,		00739	00001	DC	C.7.2.4	--	--	--
			00739	00002	DC	C.7.2.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Klinkenberg, Chris M.		02247	00001	----------	C.3.4.4	--	--	--
	Knight, Charlotte		00777	00001	DC	C.3.1.3	--	--	--
			00777	00002	----------	C.2.1.2	--	--	--
			00777	00003	----------	C.2.5.1	--	--	--
			00777	00004	----------	C.3.1.2	--	--	--
			00777	00005	DC	C.7.2.4	C.7.2.5	--	--
	Kobe, Kevin Joseph		00237	00001	DC	C.7.2	--	--	--
			00237	00002	DC	C.7.2	--	--	--
			00237	00003	DC	C.7.2	--	--	--
	Kobler, Mary Alyce		00809	00001	----------	C.2.8.3	--	--	--
			00809	00002	DC	C.7.2.4	C.7.2.5	--	--
			00809	00003	DC	C.4.3	--	--	--
			00809	00004	----------	C.3.4.4	--	--	--
			00809	00005	----------	C.2.4.1	--	--	--
			00809	00006	DC	C.5.10	--	--	--
			00809	00007	DC	C.7.1	--	--	--
			00809	00008	----------	C.3.1.2	--	--	--
	Krueger, Heather		00823	00001	----------	C.3.1.2	--	--	--
			00823	00002	DC	C.6.3	--	--	--
			00823	00003	----------	C.2.4.1	--	--	--
			00823	00004	DC	C.7.2.8	C.5.1	--	--
			00823	00005	DC	C.7.2.2	C.7.2.6	--	--
			00823	00006	----------	C.3.1.2	--	--	--
			00823	00007	DC	C.7.2.5	--	--	--
			00823	00008	DC	C.7.2.5	--	--	--
			00823	00009	DC	C.7.2.4	--	--	--
			00823	00010	DC	C.7.4	--	--	--
			00823	00011	----------	C.2.5.2	--	--	--
			00823	00012	----------	C.2.5.2	--	--	--
			00823	00013	DC	C.7.4.2	--	--	--
			00823	00014	DC	C.7.4.2	--	--	--
	Lavalle, Lance		00822	00001	DC	C.7.2.4	C.7.2.5	--	--
			00822	00002	DC	C.7.2.4	--	--	--
			00822	00003	DC	C.7.2.5	--	--	--
			00822	00004	DC	C.7.4	--	--	--
			00822	00005	----------	C.3.1.2	--	--	--
	Lavdres, Peter		01298	00001	DC	C.7.2	--	--	--
	Lehman, Dale		00933	00001	----------	C.2.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00933	00002	----------	C.3.1.2	--	--	--
			00933	00003	DC	C.7.4	--	--	--
			00933	00004	DC	C.7.2.4	--	--	--
			00933	00005	DC	C.7.2.4	--	--	--
			00933	00006	DC	C.7.4	--	--	--
			00933	00007	DC	C.7.2.1	--	--	--
	Lehmann, Diane		00832	00001	----------	C.3.1.2	--	--	--
			00832	00002	----------	C.2.8.3	--	--	--
	Levine, Deborah		00767	00001	----------	C.3.1.2	--	--	--
			00767	00002	----------	C.3.1.1	--	--	--
			00767	00003	----------	C.3.1.1	--	--	--
			00767	00004	DC	C.7.4	--	--	--
			00767	00005	DC	C.4.1.3.3	--	--	--
			00767	00006	----------	C.2.7	--	--	--
			00767	00007	DC	C.4.1	--	--	--
			00767	00008	DC	C.7.4	--	--	--
			02201	00001	----------	C.3.1.2	--	--	--
			02201	00002	----------	C.2.3	--	--	--
			02201	00003	----------	C.2.3	--	--	--
			02201	00004	DC	C.7.4	--	--	--
			02201	00005	DC	C.4.1.3.3	--	--	--
			02201	00006	----------	C.7.3	--	--	--
			02201	00007	DC	C.4.1	--	--	--
			02201	00008	DC	C.7.4	--	--	--
	Lewis, Susan		00794	00001	DC	C.7.2.4	--	--	--
	Lewis, Andy		00810	00001	----------	C.3.1.2	--	--	--
			00810	00002	DC	C.3.1.3	--	--	--
			00810	00003	DC	C.7.2	--	--	--
			00810	00004	DC	C.7.2.5	--	--	--
			00810	00005	DC	C.7.2.6	--	--	--
			00810	00006	----------	C.3.1.2	--	--	--
			00810	00007	DC	C.6.5	--	--	--
			00810	00008	----------	C.2.8.1	--	--	--
			00810	00009	----------	C.3.1.2	--	--	--
	Lilieholm, David		00781	00002	DC	C.7.2.4	C.7.2.5	--	--
	Lindahl, Alice M.		00679	00001	DC	C.7.4.2	--	--	--
			00679	00002	DC	C.7.3	--	--	--
			00679	00003	DC	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Lindgren, Eric		00821	00001	DC	C.4.2.3	--	--	--
			00821	00002	DC	C.7.2	--	--	--
			00821	00003	DC	C.7.2	--	--	--
			00821	00004	DC	C.4.1.3.5	--	--	--
			00821	00005	DC	C.7.2.3	--	--	--
			00821	00006	DC	C.7.2.4	C.7.2.5	--	--
			00821	00007	DC	C.7.2.5	--	--	--
			00821	00008	DC	C.7.3	--	--	--
			00821	00009	----------	C.3.1.2	--	--	--
	Lindgren, Kim		02235	00001	----------	C.3.4.4	--	--	--
	Lindgren, Eric R.		02240	00001	DC	C.7.2.4	C.7.2.5	--	--
	Lindsay, LaMar W.	State of Utah Comments	02638	00001	DC	C.7.2.6	--	--	--
			02638	00002	DC	C.4.1.3.6	--	--	--
			02638	00003	DC	C.4.1.3.6	--	--	--
	Linn, Jeanie M.		01172	00001	DC	C.7.1.1	--	--	--
			01172	00002	DC	C.7.2.5	C.7.2.4	--	--
			01172	00003A	DC	C.7.4	C.7.2.4	--	--
			01172	00003B	DC	C.7.4	--	--	--
			01172	00004	DC	C.7.2.6	C.4.1.3.6	--	--
			01172	00005	DC	C.7.3	--	--	--
			01172	00006	----------	C.3.1.2	--	--	--
	Liverman, Dr. D. M.		02636	00001	----------	C.2.4.1	--	--	--
			02636	00002	----------	C.2.4.1	--	--	--
			02636	00003	----------	C.2.4.1	--	--	--
			02636	00004	----------	C.2.4.1	--	--	--
			02636	00005	----------	C.2.4.1	--	--	--
			02636	00006	----------	C.2.4.1	--	--	--
			02636	00007	----------	C.2.4.1	--	--	--
			02636	00008	----------	C.2.4.1	--	--	--
			02636	00009	----------	C.2.4.1	--	--	--
			02636	00010	----------	C.2.4.1	--	--	--
			02636	00011	----------	C.2.4.1	--	--	--
			02636	00012	----------	C.2.4.1	--	--	--
			02636	00013	----------	C.2.4.1	--	--	--
			02636	00014	----------	C.2.4.1	--	--	--
			02636	00015	----------	C.2.4.1	--	--	--
			02636	00016	----------	C.2.4.1	--	--	--
			02636	00017	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02636	00018	----------	C.2.4.1	--	--	--
			02636	00019	----------	C.2.4.1	--	--	--
			02636	00020	----------	C.2.4.1	--	--	--
			02636	00021	----------	C.2.4.1	--	--	--
			02636	00022	----------	C.2.4.1	--	--	--
			02636	00023	----------	C.2.4.1	--	--	--
			02636	00024	----------	C.2.4.1	--	--	--
			02636	00025	----------	C.2.4.1	--	--	--
			02636	00026	----------	C.2.4.1	--	--	--
	Lockhart, William		00761	00001	----------	C.3.1.2	--	--	--
			00761	00002	DC	C.4.2.3	--	--	--
			00761	00003	----------	C.7.5	--	--	--
			00761	00005	DC	C.7.1.1.5	--	--	--
			00761	00006	DC	C.4.1.3.3	--	--	--
			00761	00007	DC	C.4.1.3.6	--	--	--
			00761	00008	DC	C.5.1	C.5.3	--	--
			00761	00009	DC	C.5.1	--	--	--
			00761	00010	DC	C.4.2.3	--	--	--
			00761	00011	DC	C.7.4	--	--	--
			00761	00012	----------	C.3.1.2	--	--	--
	Lockhart, William J.		01261	00001	DC	C.4.1.3.6	--	--	--
			01261	00002	DC	C.4.1.3.3	--	--	--
			01261	00003	DC	C.4.1.3.2	--	--	--
			01261	00004	DC	C.7.2	--	--	--
			01261	00005	DC	C.7.3	--	--	--
			01261	00006	----------	C.3.1.2	--	--	--
			01261	00007	DC	C.4.1.3.4	--	--	--
			01261	00008	DC	C.4.1.5	--	--	--
			01261	00009	DC	C.7.3	--	--	--
			01261	00010	----------	C.2.1.1	--	--	--
			01261	00011	DC	C.4.1.1.2	C.5.1	--	--
			01261	00012	DC	C.4.1.3.3	C.7.2.3	--	--
			01261	00013	----------	C.3.1.2	--	--	--
			01261	00014	----------	C.3.4.3	--	--	--
			01261	00015	----------	C.3.4.3	--	--	--
			01261	00016	----------	C.3.4.3	--	--	--
			01261	00017	----------	C.3.4.3	--	--	--
	Lockhart, William J.		02196	00001	DC	C.3.1.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02196	00002	DC	C.7.2	--	--	--
			02196	00003	DC	C.7.2	--	--	--
			02196	00004	DC	C.4.1.3.4	--	--	--
			02196	00005	DC	C.4.1.3.3	--	--	--
			02196	00006	DC	C.4.1.3.6	--	--	--
			02196	00007	DC	C.5.1	C.5.3	--	--
			02196	00008	----------	C.5.1	--	--	--
			02196	00009	DC	C.4.2.3	--	--	--
			02196	00010	DC	C.7.4	--	--	--
			02196	00011	DC	C.7.4	--	--	--
	Lockhart, William J.		02614	00001	----------	C.3.4.3	--	--	--
			02614	00002	----------	C.3.4.3	--	--	--
			02614	00003	----------	C.3.4.3	--	--	--
			02614	00004	----------	C.3.4.3	--	--	--
			02614	00005	----------	C.3.4.3	--	--	--
			02614	00006	----------	C.3.4.3	--	--	--
			02614	00007	----------	C.3.4.3	--	--	--
			02614	00008A	----------	C.3.4.4	--	--	--
			02614	00008B	----------	C.3.4.3	--	--	--
			02614	00008C	----------	C.3.4.4	--	--	--
			02614	00008D	----------	C.3.4.2	--	--	--
			02614	00008E	----------	C.3.1.1	--	--	--
			02614	00008F	----------	C.3.4.3	--	--	--
			02614	00008G	----------	C.3.4.3	--	--	--
			02614	00008H	----------	C.3.4.3	--	--	--
			02614	00009	----------	C.3.4.3	--	--	--
	Lucas, Ken		02673	00001	DC	C.7.1.1.5	C.7.2.5	--	--
			02673	00002	DC	C.7.2.4	--	--	--
			02673	00003	DC	C.7.2.3	--	--	--
			02673	00004	DC	C.7.2.6	--	--	--
			02673	00005	DC	C.7.2.4	--	--	--
	Lumdahl, Cordell		00768	00001	----------	C.3.4.4	--	--	--
			00768	00002	----------	C.2.4.2	--	--	--
	Lusk, Mark W.		00063	00001	----------	C.3.4.4	--	--	--
			00063	00002	DC	C.7.4	--	--	--
			00063	00003	DC	C.7.2	--	--	--
			00063	00004	DC	C.7.2	--	--	--
	Lyon, Thomas J.		00252	00001	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00252	00002	DC	C.4.1.3.4	--	--	--
			00252	00003	DC	C.4.1.3	--	--	--
			00252	00004	DC	C.7.2	--	--	--
			00252	00005	DC	C.7.2	--	--	--
	Mangum, Todd		00797	00001	----------	C.3.1.2	--	--	--
	Mangum, Todd		02215	00001	----------	C.3.1.2	--	--	--
	Manning, Steven		00769	00001	DC	C.4.1.3.6	C.3.2	--	--
			00769	00002	DC	C.4.1.3.6	--	--	--
	Marder, Joyce		00762	00001	DC	C.7.4	--	--	--
	Martin, Terri		00760	00001	----------	C.3.4.4	--	--	--
			00760	00002	DC	C.7.2.5	--	--	--
			00760	00003	DC	C.7.2.4	--	--	--
			00760	00004	DC	C.7.4	--	--	--
			00760	00005	DC	C.7.4	--	--	--
	Mason, Patrice		00742	00001	----------	C.3.4.4	--	--	--
	Matheson, Scott M.	Utahns for Canyonlands	01235	00001	----------	C.2.1.1	--	--	--
			01235	00002	----------	C.3.1.2	--	--	--
			01235	00003	----------	C.3.4.4	--	--	--
			01235	00004	----------	C.2.6.1	--	--	--
			01235	00005	----------	C.2.4.3	--	--	--
			01235	00006	----------	C.3.1.2	--	--	--
			01235	00007	DC	C.7.3	--	--	--
			01235	00008	DC	C.7.3	--	--	--
			01235	00009	DC	C.7.3	--	--	--
			01235	00010	----------	C.2.4.1	--	--	--
			01235	00011	DC	C.7.2.8	C.7.2.1	--	--
			01235	00012A	DC	C.4.3	C.8.1	--	--
			01235	00012B	DC	C.7.2.8	--	--	--
			01235	00014	DC	C.7.1.1.8	C.4.3	--	--
			01235	00016	DC	C.7.2.4	--	--	--
			01235	00017	DC	C.7.4	--	--	--
			01235	00018A	DC	C.4.1.1	C.4.1.2	--	--
			01235	00018B	DC	C.4.1.1.5	--	--	--
			01235	00019	DC	C.7.2.2	--	--	--
			01235	00020	DC	C.7.2.6	--	--	--
			01235	00021	DC	C.7.1.1	--	--	--
			01235	00022	DC	C.7.4	--	--	--
			01235	00023	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01235	00024	----------	C.3.1.2	--	--	--
			01235	00025	----------	C.2.3.3	--	--	--
			01235	00026	----------	C.2.4.2	--	--	--
			01235	00027	----------	C.2.5.2	--	--	--
			01235	00028	----------	C.2.6.1	--	--	--
			01235	00029	----------	C.2.1.1	--	--	--
			01235	00030	----------	C.3.1.2	--	--	--
			01235	00031	----------	C.3.1.2	--	--	--
			01235	00032	----------	C.2.7	--	--	--
			01235	00033	DC	C.5.6	C.7.3	C.7.4	C.7.2.8
			01235	00034	DC	C.4.1.3.6	--	--	--
			01235	00035	----------	C.3.1.2	--	--	--
			01235	00036	DC	C.4.1.3.6	--	--	--
			01235	00037	----------	C.2.3.1	--	--	--
			01235	00038	----------	C.2.2.1	--	--	--
			01235	00039	----------	C.3.4.4	--	--	--
			01235	00040	----------	C.2.1.1	--	--	--
			01235	00041	----------	C.3.1.2	--	--	--
	Matheson, Scott M.		02189	00001	DC	C.7.4	--	--	--
			02189	00002	----------	C.3.1.2	--	--	--
			02189	00003	----------	C.3.1.2	--	--	--
			02189	00004	----------	C.3.1.2	--	--	--
			02189	00005	----------	C.2.1.2	--	--	--
			02189	00006	DC	C.7.3	C.5.6	--	--
			02189	00007	DC	C.7.1.1.6	--	--	--
			02189	00008	DC	C.7.2	--	--	--
			02189	00009	DC	C.7.1.1.6	--	--	--
			02189	00010	----------	C.2.3.1	--	--	--
			02189	00011	----------	C.2.2.1	--	--	--
			02189	00012	----------	C.3.4.4	--	--	--
			02189	00013	----------	C.2.1.1	--	--	--
			02189	00014	----------	C.3.1.2	--	--	--
	Matis, Lew		00922	00001	----------	C.3.4.4	--	--	--
			00922	00002	----------	C.3.1.2	--	--	--
	Maxfield, Cory		00803	00001	----------	C.3.1.2	--	--	--
			00803	00002	----------	C.3.4.4	--	--	--
			00803	00003	----------	C.2.4.1	--	--	--
			00803	00004	DC	C.7.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00803	00005	DC	C.7.4	--	--	--
			00803	00006	----------	C.2.3.3	--	--	--
			00803	00007	----------	C.3.1.2	--	--	--
			00803	00008	DC	C.7.2.5	C.7.1.1.5	--	--
			00803	00009	DC	C.4.1.5	C.7.4	--	--
			00803	00010	----------	C.3.1.2	--	--	--
			00803	00011	----------	C.2.5.2	--	--	--
			00803	00012	----------	C.3.1.2	--	--	--
	Maxfield, Cory		02218	00001	----------	C.3.1.2	--	--	--
			02218	00002	----------	C.3.4.4	--	--	--
			02218	00003	DC	C.7.2.2	--	--	--
			02218	00004	DC	C.7.4	--	--	--
			02218	00005	----------	C.2.3.3	--	--	--
	Mazurski, Madeline		01117	00001	----------	C.3.1.2	--	--	--
			01117	00002	DC	C.7.2	--	--	--
			01117	00003	----------	C.3.1.2	--	--	--
	McCarrick, J. E.		02224	00001	DC	C.3.1.3	--	--	--
			02224	00002	----------	C.2.8.1	--	--	--
			02224	00003	----------	C.2.8.2	--	--	--
			02224	00004	DC	C.5.1	--	--	--
			02224	00005	DC	C.5.3	--	--	--
			02224	00006	DC	C.7.3	--	--	--
			02224	00007	----------	C.3.4.4	--	--	--
			02224	00008	----------	C.2.8.2	--	--	--
			02224	00009	DC	C.4.3	--	--	--
			02224	00010	----------	C.3.4.4	--	--	--
	McCawley, Dr. Paul F.		02229	00001	DC	C.7.4.2	--	--	--
			02229	00002	----------	C.3.1.2	--	--	--
			02229	00003	----------	C.3.4.4	--	--	--
	McClatchy, Millie		00748	00001	DC	C.7.1.2	C.3.4.4	--	--
			00748	00002	----------	C.2.4.1	--	--	--
			00748	00003	DC	C.7.2.8	--	--	--
			00748	00004	DC	C.7.4.1	--	--	--
			00748	00005	----------	C.3.4.4	--	--	--
	McCool, Susan		00923	00001	DC	C.7.1	--	--	--
			00923	00002	DC	C.7.2.4	--	--	--
	McCool, Lewis		00925	00001	----------	C.3.4.4	--	--	--
			00925	00002	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00925	00003	DC	C.7.1.1	--	--	--
			00925	00004	----------	C.3.1.1	--	--	--
			00925	00006	DC	C.7.2.4	--	--	--
			00925	00007	DC	C.7.2.6	--	--	--
			00925	00008	DC	C.7.2	--	--	--
			00925	00009	DC	C.7.4.2	--	--	--
	McGraw, Don		00366	00001	DC	C.5.11	--	--	--
			00366	00002	DC	C.4.1.1	--	--	--
			00366	00003	DC	C.4.1.1	--	--	--
			00366	00004	DC	C.4.1.1	--	--	--
			00366	00005	DC	C.5.2	--	--	--
			00366	00006A	----------	C.3.1.1	--	--	--
			00366	00006B	----------	C.2.4.2	--	--	--
			00366	00007	DC	C.4.1.1	--	--	--
	McGraw, Don		00807	00001	DC	C.5.11	--	--	--
			00807	00002	DC	C.5.2	--	--	--
			00807	00003	DC	C.5.2	C.5.11	--	--
			00807	00004	DC	C.5.2	--	--	--
			00807	00005	DC	C.5.11	--	--	--
			00807	00006	DC	C.4.1.2.2	C.5.1	--	--
			00807	00007	DC	C.5.6	C.4.1.1.6	--	--
			00807	00008	DC	C.4.1.2.2	C.5.1	--	--
			00807	00009	DC	C.5.1	--	--	--
			00807	00010	DC	C.4.1.1.5	--	--	--
			00807	00011	DC	C.5.3	C.5.11	--	--
			00807	00012	DC	C.3.2	C.5.8	--	--
			00807	00013	DC	C.4.1.1.8	C.5.8	--	--
			00807	00014	DC	C.5.2	C.5.11	--	--
			00807	00015	DC	C.4.1.1.8	C.5.11	--	--
			00807	00016	----------	C.3.1.1	--	--	--
			00807	00017	----------	C.3.4.3	--	--	--
			00807	00018	DC	C.4.3	--	--	--
			00807	00019	----------	C.2.8.2	--	--	--
			00807	00020	----------	C.2.8.1	--	--	--
	McGraw, Don	Physics Department	02220	00001	DC	C.5.11	--	--	--
			02220	00002	DC	C.5.11	C.5.2	--	--
			02220	00003	DC	C.5.11	C.5.2	--	--
			02220	00004	DC	C.5.2	C.5.11	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02220	00005	DC	C.5.11	--	--	--
			02220	00006	DC	C.4.2.2.2	C.5.1	--	--
			02220	00007	DC	C.5.6	C.4.1.1.6	--	--
			02220	00009	DC	C.5.1	C.4.1.1.6	--	--
			02220	00010	DC	C.4.1.1.5	--	--	--
			02220	00011	DC	C.5.3	C.5.11	--	--
			02220	00012	----------	C.3.2	--	--	--
			02220	00013	DC	C.4.1.1.8	C.5.8	--	--
			02220	00014	DC	C.5.8	C.5.10	--	--
			02220	00015	DC	C.5.10	C.4.1.1.8	--	--
			02220	00016	----------	C.2.2	--	--	--
			02220	00017	----------	C.2.2	--	--	--
			02220	00018	DC	C.4.3	--	--	--
			02220	00019	----------	C.2.8.2	--	--	--
			02220	00020	----------	C.2.8.1	--	--	--
	Meador, Bill B.	Grand County School District	00137	00001	DC	C.7.4	--	--	--
	Meador, Bill B.		02092	00001	DC	C.4.1.5.3	--	--	--
			02092	00002	DC	C.7.4.3	--	--	--
	Meehan, William		00782	00002	DC	C.7.1.1.5	C.7.2.5	--	--
			00782	00003	DC	C.7.1.1.5	--	--	--
			00782	00004	DC	C.4.1.3.4	--	--	--
			00782	00005	DC	C.7.2.5	C.7.1.1.5	--	--
			00782	00006	DC	C.4.1.3.3	C.7.1.1.3	C.7.2.3	--
			00782	00007	DC	C.4.1.3.3	C.7.1.1.3	C.7.2.3	--
			00782	00008	DC	C.7.1.1.4	C.7.2.4	--	--
			00782	00009	DC	C.7.2.4	--	--	--
			00782	00010	DC	C.7.3	C.4.1.4	--	--
			00782	00011	DC	C.4.1.3.6	--	--	--
	Meehan, William A.		02208	00001	----------	C.3.1.2	--	--	--
			02208	00002	DC	C.7.1.1.5	C.7.2.5	--	--
			02208	00003	DC	C.4.1.3.4	--	--	--
			02208	00004	DC	C.4.1.3.4	--	--	--
			02208	00005	DC	C.4.1.3.4	C.7.1.1.5	C.7.2.5	--
			02208	00006	DC	C.4.1.3.3	C.7.1.1.3	C.7.2.3	--
			02208	00007	DC	C.4.1.3.3	C.7.1.1.3	C.7.2.3	--
			02208	00008	DC	C.7.1.1.4	C.7.2.4	--	--
			02208	00009	DC	C.7.2.4	--	--	--
			02208	00010	DC	C.7.3	C.4.1.4	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02208	00011	DC	C.4.1.3.6	--	--	--
	Merrell, Harvey W.		00734	00001	----------	C.3.1.2	--	--	--
			00734	00002	----------	C.3.4.3	--	--	--
			00734	00003	----------	C.3.1.2	--	--	--
			00734	00004	----------	C.3.4.2.1	--	--	--
			00734	00005	----------	C.3.4.3	--	--	--
			00734	00006	----------	C.7.4	--	--	--
			00734	00007	----------	C.7.4	--	--	--
			00734	00008	----------	C.3.4.2.1	--	--	--
			00734	00009	----------	C.3.4.2	--	--	--
			00734	00010	----------	C.3.4.2.2	--	--	--
			00734	00011	----------	C.3.4.2.2	--	--	--
			00734	00012	----------	C.3.4.3	--	--	--
	Merrell, Harvey W.		01541	00002	----------	C.3.4.1	--	--	--
			01541	00003	----------	C.3.4.1	--	--	--
			01541	00004	----------	C.3.4.1	--	--	--
			01541	00005	----------	C.3.4.1	--	--	--
			01541	00006	----------	C.3.4.1	--	--	--
			01541	00007	----------	C.3.4.1	--	--	--
			01541	00008	----------	C.3.4.1	--	--	--
			01541	00009	----------	C.3.4.1	--	--	--
			01541	00010	----------	C.3.4.1	--	--	--
			01541	00011	----------	C.3.4.2.1	--	--	--
			01541	00012	----------	C.3.4.2.1	--	--	--
			01541	00013	----------	C.3.4.2.1	--	--	--
			01541	00014	----------	C.3.4.2.1	--	--	--
			01541	00015	----------	C.3.4.2.2	--	--	--
			01541	00016	----------	C.3.4.2.2	--	--	--
			01541	00017	----------	C.3.4.2.3	--	--	--
			01541	00018	----------	C.3.4.2.3	--	--	--
			01541	00019	----------	C.3.4.2.3	--	--	--
			01541	00020	----------	C.3.4.2.3	--	--	--
			01541	00021	----------	C.3.4.3	--	--	--
			01541	00022	----------	C.3.4.3	--	--	--
	Merrell, Harvey W.		01542	00001	----------	C.3.4.1	--	--	--
			01542	00002	----------	C.3.4.1	--	--	--
			01542	00003	----------	C.3.4.1	--	--	--
			01542	00004	----------	C.3.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01542	00005	----------	C.3.4.1	--	--	--
			01542	00006	----------	C.3.4.2.1	--	--	--
			01542	00007	----------	C.3.4.2.3	--	--	--
			01542	00008A	----------	C.3.4.2.1	--	--	--
			01542	00008B	----------	C.3.4.2.1	--	--	--
			01542	00009	----------	C.3.4.2.2	--	--	--
			01542	00010	----------	C.3.4.2.3	--	--	--
			01542	00011	----------	C.3.4.2.3	C.3.4.3	--	--
			01542	00012	----------	C.3.4.2.3	--	--	--
			01542	00013	----------	C.3.4.2.3	--	--	--
			01542	00014	----------	C.3.4.3	--	--	--
			01542	00015	----------	C.3.4.3	--	--	--
	Merrell, Harvey W.		01543	00001	----------	C.2.7	--	--	--
			01543	00002	DC	C.4.1.5.1	C.4.1.5.3	--	--
			01543	00003	DC	C.4.1.5.2	--	--	--
			01543	00004	DC	C.4.1.5.3	--	--	--
			01543	00005	DC	C.4.1.5.3	--	--	--
			01543	00006	DC	C.4.1.5.3	--	--	--
			01543	00007	DC	C.7.1.2	--	--	--
			01543	00008	DC	C.4.1	--	--	--
			01543	00009	DC	C.6.2	--	--	--
			01543	00010	DC	C.6.3	--	--	--
			01543	00011	DC	C.6.3	--	--	--
			01543	00012	DC	C.6.3	--	--	--
			01543	00013	DC	C.6.3	--	--	--
			01543	00014	DC	C.7.3	--	--	--
			01543	00016	DC	C.4.1.1	--	--	--
	Merrell, Harvey W.		01544	00001	----------	C.3.4.3	--	--	--
			01544	00002	----------	C.3.4.3	--	--	--
			01544	00003	----------	C.3.4.3	--	--	--
			01544	00004	----------	C.3.4.3	--	--	--
			01544	00005	----------	C.3.4.3	--	--	--
			01544	00006	----------	C.3.4.3	--	--	--
			01544	00007	----------	C.3.4.2.1	--	--	--
			01544	00008	----------	C.3.4.2.2	C.3.4.3	--	--
			01544	00009	----------	C.3.4.2.2	--	--	--
			01544	00010	----------	C.3.4.2.2	--	--	--
			01544	00011	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Merrell, Harvey W.		01545	00001	----------	C.3.4.3	--	--	--
			01545	00002	----------	C.3.4.2.3	--	--	--
			01545	00007	----------	C.2.7	--	--	--
			01545	00009	----------	C.2.7	--	--	--
			01545	00019	----------	C.3.4	--	--	--
	Merrell, Harvey W.		02099	00001	----------	C.3.1.2	--	--	--
			02099	00002	----------	C.3.4.3	--	--	--
			02099	00003	----------	C.3.1.2	--	--	--
			02099	00004	----------	C.3.4.3	--	--	--
			02099	00005	----------	C.3.4.2.1	--	--	--
			02099	00006	----------	C.3.4.2	--	--	--
			02099	00007	----------	C.3.4.2	--	--	--
			02099	00008	----------	C.3.4.2.1	--	--	--
			02099	00009	----------	C.3.4.2	--	--	--
			02099	00010	DC	C.7.4	C.7.1.2	--	--
			02099	00011	----------	C.3.4.2.2	--	--	--
			02099	00012	----------	C.3.4.2.3	--	--	--
			02099	00013	----------	C.3.4.2.3	--	--	--
			02099	00014	----------	C.3.4.3	--	--	--
			02099	00015	----------	C.3.4.3	--	--	--
	Millham, Bertha C.		00053	00001	DC	C.7.2	--	--	--
			00053	00002	DC	C.7.2	--	--	--
			00053	00003	DC	C.7.2	--	--	--
	Minix, Casey		00790	00001	----------	C.3.1.2	--	--	--
	Mitchell, Dr. Jerry K.		00301	00001	----------	C.3.1.2	--	--	--
			00301	00002	----------	C.3.1.2	--	--	--
			00301	00003	DC	C.7.1	--	--	--
			00301	00004	DC	C.7.2.5	--	--	--
			00301	00005	DC	C.7.2	--	--	--
			00301	00006	DC	C.7.2	--	--	--
			00301	00007	----------	C.3.1.2	--	--	--
	Mitchell, Pat		00339	00001	DC	C.7.2	--	--	--
			00339	00002	DC	C.4.1.3	--	--	--
			00339	00003	----------	C.2.1.1	--	--	--
	Montrose, K. Hugh		02091	00001	----------	C.2.1.2	--	--	--
	Moorehead, Jeffrey		00932	00001	----------	C.3.1.2	--	--	--
			00932	00002	----------	C.3.1.2	--	--	--
	Morgan, Billy Mack		00747	00002	----------	C.7.2.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00747	00003	DC	C.7.3	--	--	--
	Morrison, Stan		00127	00001A	----------	C.2.8.3	--	--	--
			00127	00001B	DC	C.4.2.1	--	--	--
			00127	00002	DC	C.5.2	--	--	--
			00127	00003	DC	C.4.2.2	--	--	--
	Moseley, Mica		00467	00001	----------	C.3.4.4	--	--	--
			00467	00002	DC	C.3.1.3	--	--	--
	Mulvey, William E.		02232	00001	----------	C.3.4.4	--	--	--
			02232	00002	DC	C.5.7	--	--	--
	Mulvey, Debra Dellinger		02241	00001	----------	C.3.4.4	--	--	--
	Nelson, Roger N.		02248	00001	----------	C.3.4.4	--	--	--
	Newman, Mr. & Mrs. A. O.		00005	00001	----------	C.3.4.4	--	--	--
	Nichols, Amber		00831	00001	----------	C.3.1.2	--	--	--
			00831	00002	----------	C.3.1.2	--	--	--
			00831	00003	DC	C.7.1	--	--	--
	Norcross, Frances		00806	00001	----------	C.3.1.2	--	--	--
			00806	00002	----------	C.3.2	--	--	--
			00806	00003	DC	C.7.1.1.5	C.7.2.5	--	--
			00806	00004	----------	C.3.1.2	--	--	--
	Nordling, Thea K.		00388	00001	DC	C.7.2.5	--	--	--
			00388	00002	DC	C.7.2.4	--	--	--
			00388	00003	DC	C.7.2	--	--	--
			00388	00004	DC	C.7.3	--	--	--
			00388	00005	DC	C.7.2.6	--	--	--
			00388	00006	DC	C.4.2.1	--	--	--
			00388	00007	DC	C.7.2	--	--	--
	Norman, Robert		00728	00001	----------	C.3.4.3	--	--	--
			00728	00002	----------	C.3.4.1	--	--	--
			00728	00003	----------	C.3.4.2.1	--	--	--
			00728	00004	DC	C.7.1.2	C.7.4	--	--
			00728	00005	----------	C.3.4.2.3	--	--	--
			00728	00006	----------	C.3.4.2.2	--	--	--
			00728	00007	DC	C.7.4.3	--	--	--
			00728	00008	----------	C.3.4.3	--	--	--
			00728	00009	----------	C.3.4.3	--	--	--
			00728	00010	DC	C.8.2	C.3.4.1	--	--
			00728	00011	DC	C.8.2	C.3.4.1	--	--
	Norman, Robert R.		02098	00001	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02098	00002	----------	C.3.4.1	--	--	--
			02098	00003	----------	C.3.4.2.1	--	--	--
			02098	00004	----------	C.3.4.2.2	--	--	--
			02098	00005	----------	C.3.4.2.3	--	--	--
			02098	00006	----------	C.3.4.2.2	--	--	--
			02098	00007	DC	C.7.4.3	--	--	--
			02098	00008	----------	C.3.4.3	--	--	--
	Norman, Robert C.	Buttes Resources Company	00132	00001	----------	C.3.4.3	--	--	--
			00132	00002	DC	C.7.4	--	--	--
	Nystrom, Jarl B.		01348	00001	----------	C.3.4.4	--	--	--
			01348	00002	DC	C.7.2	--	--	--
			01348	00003	DC	C.7.2.5	--	--	--
			01348	00004	DC	C.7.4.2	--	--	--
			01348	00005	DC	C.5.3	C.4.1.1.5	--	--
			01348	00006	----------	C.2.5.1	--	--	--
			01348	00007	DC	C.5.1	--	--	--
			01348	00008	----------	C.2.1.1	--	--	--
	O'Connell, Jean,Peter & Timothy		00021	00001	----------	C.3.4.4	--	--	--
			00021	00002	DC	C.7.2	--	--	--
	O'Neill, Janet Taylor		00088	00001	----------	C.3.4.4	--	--	--
	Olshansky, S. Jay	University of Utah	01540	00001	DC	C.4.1.5	C.7.1.2	C.7.4	--
			01540	00002	DC	C.4.1.5.1	--	--	--
			01540	00003	DC	C.4.1.5.1	--	--	--
			01540	00004	DC	C.4.1.5.2	--	--	--
			01540	00005	DC	C.4.1.5.2	--	--	--
			01540	00006	DC	C.4.1.5.3	--	--	--
			01540	00007	DC	C.4.1.4	--	--	--
			01540	00008	DC	C.7.1.1.9	--	--	--
			01540	00009	DC	C.7.1.2	--	--	--
			01540	00010	DC	C.7.1.2	--	--	--
			01540	00011	DC	C.7.3	--	--	--
			01540	00012	DC	C.7.4	--	--	--
			01540	00013	DC	C.7.4.2	--	--	--
			01540	00014	DC	C.7.4.3	--	--	--
			01540	00015	DC	C.7.4.4	--	--	--
			01540	00019	----------	C.3.4.3	--	--	--
			01540	00020	----------	C.3.4.3	--	--	--
			01540	00021	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01540	00022	----------	C.3.4.3	--	--	--
			01540	00023	----------	C.3.4.3	--	--	--
	Oram, Debbie		01344	00001	----------	C.3.1.2	--	--	--
			01344	00002	----------	C.2.4.1	--	--	--
			01344	00003	DC	C.7.3	--	--	--
			01344	00004	DC	C.7.4.2	--	--	--
	Oram, Debbie	Utahns Against the Dump	01340	00001	DC	C.7.4	--	--	--
			01340	00002	DC	C.7.4.2	--	--	--
			01340	00003	----------	C.2.4.1	--	--	--
			01340	00004	----------	C.2.4.1	--	--	--
			01340	00005	----------	C.2.4.1	--	--	--
			01340	00006	----------	C.2.8.3	--	--	--
	Oviatt, Susan		00627	00001	DC	C.7.1.1.4	--	--	--
			00627	00002	DC	C.7.1.1.4	--	--	--
			00627	00003	DC	C.3.1.3	--	--	--
			00627	00004	----------	C.3.1.2	--	--	--
	Oviatt, Charles G.		00628	00002	DC	C.4.1.1.5	--	--	--
			00628	00003	DC	C.4.1.1.5	--	--	--
			00628	00004	----------	C.3.1.2	--	--	--
	Oviatt, Jack		02236	00001	----------	C.3.4.4	--	--	--
	Oviatt, Susan		02238	00001	----------	C.3.4.4	--	--	--
	Pass, Merlin R.		01242	00001	----------	C.3.1.2	--	--	--
			01242	00002	DC	C.3.1.3	--	--	--
			01242	00003	DC	C.4.1	--	--	--
			01242	00004	DC	C.4.1.1	C.4.1.2	--	--
			01242	00005	DC	C.4.1.3	C.4.1.4	--	--
			01242	00006	DC	C.4.1.3.3	--	--	--
			01242	00007	DC	C.4.1.3.6	--	--	--
			01242	00008	DC	C.7.3	C.7.2.8	C.7.1.1.8	--
			01242	00009	DC	C.3.1.3	--	--	--
			01242	00010	DC	C.4.1	--	--	--
			01242	00011	DC	C.7.4	--	--	--
			01242	00012	DC	C.7.3	--	--	--
			01242	00013	DC	C.5.1	C.3.2	--	--
			01242	00014	DC	C.5.1	C.5.6	--	--
			01242	00015	DC	C.5.6	C.5.2	--	--
			01242	00016	DC	C.4.1.2.2	--	--	--
			01242	00017	DC	C.4.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01242	00018	DC	C.4.1	--	--	--
			01242	00019	DC	C.4.1.2.2	--	--	--
			01242	00020	DC	C.4.1.1.5	--	--	--
			01242	00021	DC	C.4.1.1.7	--	--	--
			01242	00022	DC	C.4.1.1.6	--	--	--
			01242	00023	DC	C.7.1.1.8	--	--	--
			01242	00024	DC	C.4.1.3	--	--	--
			01242	00025	DC	C.7.3	C.3.2	--	--
			01242	00026	DC	C.4.1.5	--	--	--
			01242	00027	----------	C.3.1.2	--	--	--
	Paterson Jensen, Danielle Margie		01140	00001	----------	C.2.3	--	--	--
			01140	00002	----------	C.3.1.2	--	--	--
			01140	00003	----------	C.2.3	--	--	--
			01140	00004	DC	C.5.1	C.7.2.8	--	--
			01140	00005	DC	C.5.11	--	--	--
			01140	00006	DC	C.7.1.1	--	--	--
			01140	00007	DC	C.4.1.3.4	C.7.1.1.5	--	--
			01140	00008	DC	C.7.4	C.7.2.4	--	--
	Paull, Stephen E.		02243	00001	----------	C.3.4.4	--	--	--
	Peterson, Dr. F. Ross		02226	00001	----------	C.3.4.4	--	--	--
			02226	00002	DC	C.7.2	--	--	--
	Petition		02100	00001	----------	C.3.1.2	--	--	--
		Don't Waste Utah Campaign	01118	00001	----------	C.3.4.4	--	--	--
	Pettis, Margaret		00772	00001	----------	C.3.4.4	--	--	--
	Pettis, Margaret		02203	00001	----------	C.3.1.2	--	--	--
	Pickerell, Loretta		00753	00001	----------	C.2.3.3	--	--	--
			00753	00002	----------	C.3.1.2	--	--	--
			00753	00003	DC	C.7.2.5	--	--	--
			00753	00004	DC	C.7.2.3	--	--	--
			00753	00005	DC	C.7.2.4	--	--	--
	Pickerell, Loretta		01264	00001	----------	C.2.1.1	--	--	--
			01264	00002	DC	C.7.2	--	--	--
			01264	00003	DC	C.7.2	--	--	--
			01264	00004	----------	C.3.1.2	--	--	--
			01264	00005	----------	C.3.1.2	--	--	--
			01264	00006A	DC	C.3.1.2	C.3.1.3	--	--
			01264	00006B	DC	C.7.2	--	--	--
			01264	00007	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01264	00008	DC	C.7.1.1.1	C.7.2.1	--	--
			01264	00009	DC	C.7.1.1.5	C.7.2.5	C.4.1.3.4	--
			01264	00010	DC	C.7.1.1.3	C.7.2.3	C.4.1.3.3	--
			01264	00011A	DC	C.7.1.1.3	C.7.2.3	C.4.1.3.3	--
			01264	00011B	----------	C.7.1.1.4	C.7.2.4	--	--
			01264	00012	DC	C.7.1.1.4	C.7.2.4	C.4.1.3.5	--
			01264	00013	DC	C.7.1.1.6	C.7.2.6	C.4.1.3.6	--
			01264	00014	DC	C.7.1.1.2	C.7.2.2	C.4.1.3.2	--
			01264	00015	DC	C.7.1.2	C.7.4.2	C.4.1.5	--
			01264	00016	DC	C.4.1.3	C.7.2	C.7.1.1	--
			01264	00017	DC	C.7.1.1.9	--	--	--
	Pickerell, Loretta	Wilderness Society, Sierra Club	02191	00001	----------	C.2.3.1	--	--	--
			02191	00002	----------	C.2.3.1	--	--	--
			02191	00003	DC	C.7.2.5	--	--	--
			02191	00004	DC	C.7.2.5	--	--	--
			02191	00005	DC	C.4.1.3.4	C.7.2.5	--	--
			02191	00006	DC	C.4.1.3.4	--	--	--
			02191	00007	DC	C.7.2.5	--	--	--
			02191	00008	DC	C.7.2.5	--	--	--
			02191	00009	DC	C.7.2.5	--	--	--
			02191	00010	DC	C.7.2.5	--	--	--
			02191	00011	DC	C.7.1.1.3	C.7.2.3	--	--
			02191	00012	DC	C.4.1.3.3	--	--	--
			02191	00013	DC	C.4.1.3.3	--	--	--
			02191	00014	DC	C.4.1.3.3	--	--	--
			02191	00015	DC	C.7.1.1.3	--	--	--
			02191	00016	DC	C.7.2.4	--	--	--
			02191	00017	DC	C.7.2.4	--	--	--
			02191	00018	DC	C.7.2.4	--	--	--
			02191	00019	DC	C.7.2.4	--	--	--
			02191	00020	DC	C.7.2.6	--	--	--
			02191	00021	DC	C.4.3.6	--	--	--
			02191	00022	DC	C.7.2.6	--	--	--
			02191	00023	DC	C.7.2.6	--	--	--
			02191	00024	DC	C.7.2.6	--	--	--
			02191	00025	----------	C.2.4.1	--	--	--
			02191	00026	DC	C.7.3	--	--	--
			02191	00027	DC	C.7.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02191	00028	DC	C.4.1.1	C.4.1.2	--	--
			02191	00029	DC	C.4.1.2	--	--	--
			02191	00030	DC	C.4.1.2.2	--	--	--
			02191	00031	DC	C.4.1.1	C.7.1	--	--
			02191	00032	DC	C.5.1	--	--	--
			02191	00033	DC	C.5.1	C.7.2	--	--
			02191	00034	DC	C.7.2	--	--	--
			02191	00035	DC	C.7.4.2	--	--	--
			02191	00036	DC	C.7.2	--	--	--
			02191	00037	DC	C.7.2.4	--	--	--
	Pingree, Timothy F.		00192	00001	DC	C.7.2	--	--	--
			00192	00002	DC	C.7.2	--	--	--
	Plenk, Bruce		00787	00001	DC	C.7.2.4	--	--	--
			00787	00002	DC	C.7.3	--	--	--
			00787	00003	----------	C.3.4.4	C.2.4.1	--	--
			00787	00004	DC	C.7.3	--	--	--
			00787	00005	DC	C.7.1.1.5	C.7.2.5	--	--
			00787	00006	DC	C.7.1.1.6	C.7.2.6	--	--
			00787	00007	DC	C.7.2	--	--	--
	Pomble, David		00796	00001	----------	C.3.1.2	--	--	--
			00796	00002	----------	C.3.1.2	--	--	--
	Radine, Gene	U.S. Department of Interior	02118	00001	DC	C.4.2.2	--	--	--
			02118	00002	DC	C.7.2	--	--	--
			02118	00003	DC	C.4.1.5	--	--	--
			02118	00004	DC	C.4.3	--	--	--
			02118	00005	DC	C.4.1.2	--	--	--
			02118	00006	DC	--	--	--	--
			02118	00007	DC	C.4.1	--	--	--
			02118	00008	DC	--	--	--	--
			02118	00009	DC	--	--	--	--
			02118	00010	DC	C.4.1.2.1	C.4.1.2.2	--	--
			02118	00011	DC	C.4.1.2.1	--	--	--
			02118	00012	DC	C.4.1.2.3	--	--	--
			02118	00013	----------	--	--	--	--
			02118	00014	DC	--	--	--	--
			02118	00015	DC	C.7.1.2	C.7.4	--	--
			02118	00016	DC	--	--	--	--
			02118	00017	DC	--	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02118	00018	DC	--	--	--	--
			02118	00019	DC	--	--	--	--
			02118	00020	DC	C.5.8	--	--	--
			02118	00021	DC	--	--	--	--
			02118	00022	DC	C.4.1.2.2	--	--	--
			02118	00023	DC	C.4.1.2.2	--	--	--
			02118	00024	DC	--	--	--	--
			02118	00025	DC	C.4.1.3.1	--	--	--
			02118	00026	DC	--	--	--	--
			02118	00027	DC	C.4.1.3.1	--	--	--
			02118	00028	DC	C.4.1.3.1	--	--	--
			02118	00029	DC	C.4.1.3.2	--	--	--
			02118	00030	DC	C.4.1.3.2	--	--	--
			02118	00031	DC	--	--	--	--
			02118	00032	DC	C.4.1.3.2	--	--	--
			02118	00033	DC	--	--	--	--
			02118	00034	DC	C.4.1.3.2	--	--	--
			02118	00035	DC	C.4.1.3.2	--	--	--
			02118	00036	DC	--	--	--	--
			02118	00037	DC	C.4.1.3.5	--	--	--
			02118	00038	DC	C.4.1.3.5	--	--	--
			02118	00039	DC	C.4.1.3.7	--	--	--
			02118	00040	DC	C.4.1.4	--	--	--
			02118	00041	DC	C.4.1.4	--	--	--
			02118	00042	DC	C.4.1.5.1	--	--	--
			02118	00043	DC	C.4.1.5.2	--	--	--
			02118	00044	DC	C.4.1.5.3	--	--	--
			02118	00045	DC	C.4.1.5.4	--	--	--
			02118	00046	DC	--	--	--	--
			02118	00047	DC	--	--	--	--
			02118	00048	DC	C.4.2.1	--	--	--
			02118	00049	DC	--	--	--	--
			02118	00050	DC	--	--	--	--
			02118	00051	DC	C.4.2.3	--	--	--
			02118	00052	DC	C.7.1.1.2	--	--	--
			02118	00053	DC	C.7.1.1.3	--	--	--
			02118	00054	DC	C.7.1.1.3	--	--	--
			02118	00055	DC	C.7.1.1.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02118	00057	DC	C.7.1.1.4	--	--	--
			02118	00058	DC	C.7.1.1.4	--	--	--
			02118	00059	DC	C.7.1.1.6	--	--	--
			02118	00060	DC	C.7.1.1.6	--	--	--
			02118	00061	DC	C.7.1.1.6	C.7.2	--	--
			02118	00062	DC	C.7.1.1.3	--	--	--
			02118	00063	DC	C.7.1.2	--	--	--
			02118	00064	DC	C.7.1.2	--	--	--
			02118	00065	DC	C.7.2.1	--	--	--
			02118	00067	DC	C.7.2.2	--	--	--
			02118	00068	DC	C.7.4.2	--	--	--
			02118	00069	DC	C.7.4.2	--	--	--
			02118	00070	DC	C.7.4.3	--	--	--
			02118	00071	DC	C.7.4.5	--	--	--
	Raines, Paula		00814	00001	DC	C.3.1.2	C.3.1.3	--	--
			00814	00002	DC	C.7.4.2	--	--	--
			00814	00003	DC	C.5.3	C.4.1.1	--	--
			00814	00004	DC	C.5.10	C.5.1	--	--
			00814	00005	DC	C.5.1	C.4.1.2.2	--	--
			00814	00006	DC	C.4.1.2.2	C.5.1	C.7.2.8	--
			00814	00007	----------	C.2.4.1	--	--	--
			00814	00008	DC	C.7.2.5	C.7.1.1.5	--	--
			00814	00009	DC	C.7.1.1.5	C.7.2.5	--	--
			00814	00010	----------	C.3.1.2	--	--	--
	Raines, Paula		00818	00001	----------	C.3.1.2	--	--	--
	Rayle, Craig		00812	00001	----------	C.3.1.2	--	--	--
			00812	00002	----------	C.3.1.2	--	--	--
			00812	00003	----------	C.3.4.4	--	--	--
			00812	00004	----------	C.3.4.4	--	--	--
			00812	00005	----------	C.3.1.2	--	--	--
	Redd, Mayor Keith		00931	00001	----------	C.3.4.3	--	--	--
			00931	00002	----------	C.3.4.2.1	--	--	--
			00931	00003	----------	C.3.4.2.3	--	--	--
			00931	00004	DC	C.7.3	--	--	--
			00931	00005	DC	C.7.4.3	--	--	--
			00931	00006	DC	C.7.4.3	--	--	--
			00931	00007	DC	C.6.2	--	--	--
			00931	00008	DC	C.3.1.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00931	00009	DC	C.4.1.5.1	--	--	--
	Reece, Ron	Utah Audubon Society	02114	00001	----------	C.3.1.2	--	--	--
			02114	00002	DC	C.7.1.1	C.7.2	--	--
			02114	00003	DC	C.7.1.2	C.7.4	--	--
			02114	00004	DC	C.7.1.2	C.7.4	--	--
			02114	00005	DC	C.3.1.3	--	--	--
			02114	00006	----------	C.2.7	--	--	--
			02114	00007	DC	C.7.1.1.5	C.7.2.5	--	--
	Relling, Mary V.		02256	00001	----------	C.3.1.2	--	--	--
			02256	00002	DC	C.7.2.5	C.7.1.1.5	--	--
			02256	00003	DC	C.7.2.4	--	--	--
			02256	00004	DC	C.7.4	C.7.2.2	--	--
			02256	00005	DC	C.7.2.6	--	--	--
	Remington, Bruce		00333	00001	DC	C.7.4	--	--	--
			00333	00002	DC	C.7.2	--	--	--
			00333	00003	DC	C.7.2	--	--	--
			00333	00004	DC	C.7.2	--	--	--
			00333	00005	DC	C.3.1.3	--	--	--
	Richardson and Fam., Reed C.		00464	00001	----------	C.3.4.4	--	--	--
			00464	00002	DC	C.7.2	--	--	--
	Riley, Brent		00729	00001	----------	C.3.4.4	--	--	--
			00756	00001	----------	C.3.1.2	--	--	--
			00756	00002	----------	C.3.1.1	--	--	--
			00756	00003	----------	C.3.1.3	--	--	--
	Riley, Brent	ROCPAC	01391	00001	DC	C.7.2.4	C.7.2.5	--	--
			01391	00002	DC	C.7.2.4	--	--	--
			01391	00003	DC	C.7.2.4	--	--	--
			01391	00004	DC	C.7.2.4	--	--	--
			01391	00005	DC	C.7.2.4	--	--	--
			01391	00006	DC	C.7.3	--	--	--
			01391	00007	DC	C.7.4	--	--	--
			01391	00008	DC	C.7.2	C.7.2.4	C.7.2.6	--
			01391	00011	DC	C.3.2	--	--	--
			01391	00012	----------	C.2.1.1	--	--	--
			01391	00013	----------	C.2.8.2	--	--	--
			01391	00014	----------	C.2.8.2	--	--	--
			01391	00015	----------	C.2.8.2	--	--	--
			01391	00016	----------	C.2.8.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01391	00017	----------	C.2.8.2	--	--	--
	Riley, Brent C.	Respectors of Canyonlands PAC	02121	00001	DC	C.7.2.5	--	--	--
			02121	00002	DC	C.7.2.4	--	--	--
			02121	00003	DC	C.7.2.4	--	--	--
			02121	00004	DC	C.7.4	--	--	--
			02121	00005	DC	C.4.1	--	--	--
			02121	00007	DC	C.7.2.4	--	--	--
			02121	00008	DC	C.6.2	--	--	--
			02121	00009A	DC	C.7.3	--	--	--
			02121	00009B	DC	C.7.4.4	--	--	--
			02121	00010	DC	C.7.2.6	--	--	--
			02121	00012	DC	C.7.2.2	--	--	--
			02121	00013	DC	C.7.4	--	--	--
			02121	00014	DC	C.7.4	--	--	--
			02121	00015	DC	C.7.2.4	--	--	--
			02121	00016	DC	C.7.2.4	--	--	--
			02121	00017	DC	C.7.4.4	--	--	--
			02121	00018	DC	C.7.4	--	--	--
			02121	00019	DC	C.7.4	--	--	--
			02121	00020	DC	C.7.4	--	--	--
			02121	00021	DC	C.7.2.5	--	--	--
			02121	00022	DC	C.7.2.4	--	--	--
			02121	00023	DC	C.7.4	--	--	--
	Roach, Josephine R.		00114	00001	----------	C.3.4.4	--	--	--
			00114	00002	----------	C.3.4.4	--	--	--
			00114	00003	DC	C.7.2	--	--	--
	Rodine Gene		02118	00006	----------	C.2.7	--	--	--
			02118	00008	----------	C.2.7	--	--	--
			02118	00009	----------	C.2.7	--	--	--
			02118	00013	----------	C.2.7	--	--	--
			02118	00014	----------	C.2.7	--	--	--
			02118	00016	----------	C.2.7	--	--	--
			02118	00017	----------	C.2.7	--	--	--
			02118	00018	----------	C.2.7	--	--	--
			02118	00019	----------	C.2.7	--	--	--
			02118	00021	----------	C.2.7	--	--	--
			02118	00024	----------	C.2.7	--	--	--
			02118	00026	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02118	00031	----------	C.2.7	--	--	--
			02118	00033	----------	C.2.7	--	--	--
			02118	00036	----------	C.2.7	--	--	--
			02118	00046	----------	C.2.7	--	--	--
			02118	00047	----------	C.2.7	--	--	--
			02118	00049	----------	C.2.7	--	--	--
			02118	00050	----------	C.2.7	--	--	--
	Rogers, Lester		00721	00001	----------	C.3.4.1	--	--	--
			00721	00002	----------	C.3.4.3	--	--	--
			00721	00003	----------	C.3.4.3	--	--	--
			00721	00004	----------	C.3.4.3	--	--	--
			00721	00005	----------	C.3.4.3	--	--	--
			00721	00006	----------	C.3.4.3	--	--	--
	Rogers, Laura		00754	00002A	----------	C.3.4.4	--	--	--
			00754	00002B	----------	C.3.4.4	--	--	--
			00754	00003	----------	C.3.4.3	--	--	--
			00754	00004	----------	C.2.4.1	--	--	--
	Rogers, Lester W.		02088	00001	----------	C.3.4.1	--	--	--
			02088	00002	----------	C.3.4.1	--	--	--
			02088	00003	----------	C.3.4.1	--	--	--
			02088	00004	----------	C.3.4.3	--	--	--
			02088	00005	----------	C.3.4.3	--	--	--
			02088	00006	----------	C.3.4.3	--	--	--
	Rogers, Laura		02192	00001	----------	C.3.1.2	--	--	--
			02192	00002	----------	C.3.1.2	--	--	--
			02192	00003	----------	C.3.4.3	--	--	--
			02192	00004	----------	C.2.4.1	--	--	--
	Rogers, Lester W.	Rogers Roost Service	01251	00001	----------	C.2.4.1	--	--	--
	Rogers, Lester & Margie		01252	00001	----------	C.3.1.2	--	--	--
			01252	00002	DC	C.7.1.1.4	C.7.2.4	C.7.4	--
			01252	00003	DC	C.7.4	--	--	--
			01252	00004	DC	C.7.4	--	--	--
			01252	00005	----------	C.3.1.2	--	--	--
	Ross, Janet	Dir, Windsong Wilderness Exped.	00620	00002	DC	C.7.2	--	--	--
			00620	00003	----------	C.3.4.4	--	--	--
	Rouzer, Dr. Steven V.		00243	00001	DC	C.7.2	--	--	--
			00243	00002	----------	C.3.1.2	--	--	--
	Roybal/Parsons, Christy/Davis		02710	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02710	00002	----------	C.2.8.1	--	--	--
	Salt, Jeff		00820	00001	----------	C.3.1.2	--	--	--
			00820	00002	----------	C.3.1.2	--	--	--
			00820	00003	DC--------	C.3.1.2	C.3.1.3	--	--
			00820	00004	----------	C.3.1.2	--	--	--
			00820	00005	DC	C.7.2.8	--	--	--
			00820	00006	----------	C.3.1.2	--	--	--
			00820	00007	----------	C.2.3.1	--	--	--
			00820	00008	----------	C.3.1.2	--	--	--
			00820	00009	DC	C.5.10	--	--	--
			00820	00010	DC	C.6.3	--	--	--
	Salzberg, Sarah Rule		00102	00001	DC	C.7.2	--	--	--
	Schaffer, Ann		00470	00001	DC	C.7.2	--	--	--
			00470	00002	DC	C.7.2	--	--	--
	Schmidt, Jerry		00802	00001	----------	C.3.1.2	--	--	--
			00802	00002	----------	C.2.1.1	--	--	--
			00802	00003	----------	C.3.4.4	--	--	--
			00802	00004	----------	C.3.4.4	--	--	--
			00802	00005	----------	2.3.1	--	--	--
			00802	00006	----------	C.2.3.2	--	--	--
			00802	00007	----------	C.3.4.4	--	--	--
			00802	00008	----------	C.3.4.4	--	--	--
	Schrader, Patty		00745	00001	DC	C.7.2.1	--	--	--
			00745	00002	DC	C.7.2.1	C.7.1.1.1	--	--
	Schultz, George	Chinle Associates	01086	00001	----------	C.2.1.1	--	--	--
			01086	00002	DC,DS,RN	C.3.1.3	--	--	--
			01086	00003	----------	C.3.4.3	--	--	--
			01086	00005	DC	C.7.3	--	--	--
			01086	00006	DC	C.3.1.3	--	--	--
			01086	00007	----------	C.3.4.4	--	--	--
			01086	00008	----------	C.3.4.4	C.7.3	--	--
	Seed, Deeda		00758	00001	----------	C.3.1.2	--	--	--
			00758	00002	DC	C.7.2	--	--	--
			00758	00003	DC	C.7.2.6	--	--	--
			00758	00004	DC	C.7.1.1	--	--	--
	Severance, Owen		00258	00001A	DC	C.4.1.3.4	--	--	--
			00258	00001B	DC	C.7.1.1.5	--	--	--
			00258	00001C	DC	C.7.2.5	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00258	00002A	DC	C.4.1.5.4	--	--	--
			00258	00002B	DC	C.7.4	--	--	--
			00258	00003	DC	C.4.1.3.6	--	--	--
			00258	00004	DC	C.3.2	--	--	--
			00258	00005	----------	C.2.1.1	--	--	--
	Severance, Owen		00269	00001	DC	C.4.1.3.4	--	--	--
			00269	00002A	DC	C.4.1.5	--	--	--
			00269	00002B	DC	C.7.4.1	--	--	--
			00269	00003	DC	C.4.1.3.6	--	--	--
			00269	00004	DC	C.3.1.3	--	--	--
			00269	00005	DC	C.4.1.5	--	--	--
	Sharpsteen, Catherine		00077	00001	----------	C.3.1.2	--	--	--
			00077	00002	DC	C.7.2	--	--	--
	Siegendorf, Lloyd & Mary Anne		02246	00001	----------	C.3.4.4	--	--	--
	Slade, Joe		00926	00001	----------	C.3.4.4	--	--	--
			00926	00002	DC	C.7.1.1.4	--	--	--
			00926	00003	DC	C.7.1.1.4	C.7.2.4	--	--
			00926	00004	DC	C.7.4	--	--	--
			00926	00005	DC	C.7.4.2	--	--	--
			00926	00006	DC	C.4.1.5.3	--	--	--
	Slade, Joe		02183	00001	----------	C.3.4.4	--	--	--
			02183	00002	DC	C.7.4	--	--	--
			02183	00003	DC	C.7.2.4	C.7.2.5	--	--
			02183	00004	DC	C.7.4	--	--	--
			02183	00005	DC	C.7.4.2	--	--	--
			02183	00006	DC	C.7.4.3	--	--	--
			02183	00007	DC	C.7.4.3	--	--	--
			02183	00008	----------	C.7.4.2	--	--	--
	Sleight, Ken		00722	00001	----------	C.2.8.3	--	--	--
			00722	00002	----------	C.2.4.1	--	--	--
			00722	00003	DC	C.7.4.2	--	--	--
	Sleight, Ken	Ken Sleight Expeditions	02094	00001	----------	C.2.7	--	--	--
			02094	00002	----------	C.2.4.1	--	--	--
			02094	00003	DC	C.7.2.4	--	--	--
	Smith, Del		02225	00001	----------	C.3.4.4	--	--	--
			02225	00002	DC	C.7.2.4	--	--	--
			02225	00003	DC	C.7.2.3	--	--	--
			02225	00004	DC	C.7.1.1.6	C.7.2.6	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
	Smith, Marshall & Margene	Strauss Uniforms	01580	00001	----------	C.3.1.2	--	--	--
			01580	00002	DC	C.5.1	--	--	--
			01580	00003	DC	C.7.4	--	--	--
			01580	00004	DC	C.4.1.3.4	C.7.2.5	--	--
			01580	00005	DC	C.7.4	--	--	--
			01580	00006	DC	C.7.2.4	C.7.2.5	--	--
	Snow, Carl		00751	00001	DC	C.7.4	--	--	--
			00751	00002	----------	C.3.1.2	--	--	--
			00751	00003	----------	C.3.1.2	--	--	--
			00751	00004	----------	C.3.1.2	--	--	--
			00751	00005	----------	C.2.7	--	--	--
			00751	00006	DC	C.7.3	C.5.6	--	--
			00751	00007	DC	C.7.1.1.6	--	--	--
			00751	00008	DC	C.7.2	--	--	--
			00751	00009	----------	C.2.4.1	--	--	--
			00751	00010	----------	C.2.3.1	--	--	--
			00751	00011	----------	C.2.2.1	--	--	--
			00751	00012	----------	C.3.4.4	--	--	--
			00751	00013	----------	C.2.1.1	--	--	--
			00751	00014	----------	C.3.1.2	--	--	--
	Snythe, Stewart		00808	00001	----------	C.3.4.4	--	--	--
			00808	00002	DC	C.7.2	--	--	--
			00808	00003	DC	C.4.1.3.5	--	--	--
			00808	00004	DC	C.7.3	--	--	--
			00808	00005	DC	C.7.2.4	--	--	--
	Spence, Jack		00763	00001	----------	C.2.8.2	--	--	--
			00763	00002	DC	C.4.1.3.1	--	--	--
			00763	00003	DC	C.4.1.3.1	--	--	--
			00763	00004	----------	C.3.1.2	--	--	--
			00763	00005	DC	C.7.2.5	--	--	--
			00763	00006A	DC	C.7.2.4	--	--	--
			00763	00006B	DC	C.7.4.3	--	--	--
			00763	00007	DC	C.7.4	--	--	--
	Spence, Jean		01130	00001	----------	C.3.1.2	--	--	--
			01130	00002	DC	C.7.4	--	--	--
	Spence, Jack T.		02197	00001	----------	C.2.8.2	--	--	--
			02197	00002	DC	C.4.1.3.1	--	--	--
			02197	00003	DC	C.4.1.3.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02197	00004	----------	C.3.1.2	--	--	--
			02197	00005	DC	C.7.2.5	--	--	--
			02197	00006	DC	C.7.2.4	--	--	--
			02197	00007	DC	C.7.2.4	--	--	--
			02197	00008	DC	C.7.2.4	--	--	--
			02197	00009	DC	C.7.4.3	--	--	--
			02197	00010	DC	C.7.4	--	--	--
			02197	00011	DC	C.7.4	--	--	--
	Spurgin, Patrick	High Level Nuclear Waste Office	02634	00001	DC	C.7.1.1.5	C.4.1.3.4	--	--
			02634	00002	DC	C.4.1.3.4	C.7.1.1.5	--	--
			02634	00003	DC	C.4.1.3.4	C.7.1.1.5	--	--
			02634	00004	DC	C.4.1.3.4	C.7.1.1.5	C.7.2.5	--
			02634	00005	DC	C.7.1.1.5	C.4.1.3.4	--	--
			02634	00006	DC	C.4.1.3.4	--	--	--
			02634	00007	DC	C.7.1.1.5	--	--	--
			02634	00008	DC	C.7.1.1.5	--	--	--
			02634	00009	DC	C.7.1.1.5	C.4.2.1	--	--
			02634	00010	DC	C.4.1.3.4	C.7.2.5	--	--
			02634	00011	DC	C.7.2.5	--	--	--
			02634	00012	DC	C.7.2.5	C.7.1.1.5	--	--
			02634	00013	DC	C.7.1.1.5	C.7.2.5	--	--
			02634	00014	DC	C.7.2.5	C.7.1.1.5	--	--
			02634	00015	DC	C.4.1.3.4	--	--	--
			02634	00016	DC	C.7.1.1.5	--	--	--
			02634	00017	DC	C.7.1.1.5	--	--	--
			02634	00018	DC	C.7.1.1.5	--	--	--
			02634	00019	DC	C.7.1.1.5	--	--	--
			02634	00020	DC	C.7.1	--	--	--
			02634	00021	DC	C.7.1.1	C.7.1.1.5	--	--
			02634	00022	DC	C.7.1.1	C.7.1.1.5	--	--
			02634	00023	DC	C.7.2.5	C.4.1.3.4	--	--
			02634	00024	DC	C.7.2.5	C.4.1.3.4	--	--
			02634	00025	DC	C.7.2.5	C.4.1.3.4	--	--
			02634	00026	DC	C.7.2.5	--	--	--
	Stark, Douglas		01296	00001	----------	C.2.4.1	--	--	--
			01296	00002	----------	C.2.3.3	--	--	--
			01296	00003	----------	C.2.1.1	--	--	--
			01296	00004	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01296	00005	----------	C.3.4.3	--	--	--
			01296	00005A	----------	C.3.4.4	--	--	--
			01296	00006	DC	C.7.1.1	C.7.4	C.7.2	--
			01296	00007	DC	C.7.1.1.3	C.7.2.3	C.4.1.3.3	--
			01296	00008	DC	C.7.1.1.5	C.7.2.5	C.4.1.3.4	--
			01296	00009	DC	C.7.1.1.6	C.7.2.6	--	--
			01296	00010A	DC	C.7.4.4	--	--	--
			01296	00010B	DC	C.7.1.1.6	C.7.2.6	--	--
			01296	00010C	DC	C.7.3	--	--	--
			01296	00010D	DC	C.7.1.1.2	C.7.2.2	C.4.1.3.2	--
			01296	00011	DC	C.4.1.2.2	--	--	--
			01296	00012	----------	C.3.4.4	--	--	--
	Steckel, Alex		00475	00001	----------	C.3.1.2	--	--	--
			00475	00002	DC	C.7.1.1	--	--	--
			00475	00003	DC	C.7.1.1	--	--	--
			00475	00004	----------	C.2.8	--	--	--
	Stocks, Joe		00116	00001	----------	C.3.4.4	--	--	--
			00116	00002	DC	C.3.3	--	--	--
			00116	00003	DC	C.7.4	--	--	--
			00116	00004	DC	C.7.1.1	--	--	--
			00116	00005	DC	C.7.4	--	--	--
			00116	00006	----------	C.3.4.4	--	--	--
			00116	00007	----------	C.3.4.4	--	--	--
			00116	00008	----------	C.3.4.4	--	--	--
			00116	00009	DC	C.7.4	--	--	--
			00116	00010	----------	C.3.4.4	--	--	--
	Stocks, Mayor Tom		00720	00001	DC	C.4.1.5.1	--	--	--
			00720	00002	----------	C.3.4.2.2	--	--	--
			00720	00003A	DC	C.4.1.5.2	--	--	--
			00720	00003B	DC	C.4.1.5.3	--	--	--
			00720	00004	----------	C.3.4.2.2	--	--	--
			00720	00005	----------	C.3.4.3	--	--	--
			00720	00006	----------	C.3.4.1	--	--	--
	Sussman, Deborah		01317	00001	----------	C.3.1	--	--	--
	Terrana, Phyllis		00834	00001	DC	C.4.1.5.4	--	--	--
			00834	00002	----------	C.2.8.3	--	--	--
			00834	00003	----------	C.3.1.2	--	--	--
			00834	00004	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00834	00005	----------	C.2.4.1	--	--	--
			00834	00007	----------	C.3.4.4	--	--	--
	Terrana, Phyllis		01531	00001	----------	C.3.1.2	--	--	--
			01531	00002	----------	C.3.1.2	--	--	--
			01531	00003	DC	C.3.3	C.3.1.3	--	--
			01531	00004	DC	C.7.2	--	--	--
			01531	00005	----------	C.2.4.1	--	--	--
			01531	00006	----------	C.3.1.2	--	--	--
			01531	00007	DC	C.7.2	--	--	--
	Thomas, Larry		01390	00001	DC	C.7.2.4	--	--	--
			01390	00002	DC	C.7.3	--	--	--
			01390	00003	DC	C.7.3	--	--	--
			01390	00004	DC	C.7.2.8	--	--	--
			01390	00005	DC	C.7.4.2	C.7.1.2	--	--
			01390	00006	DC	C.7.4.3	--	--	--
	Thompson, Patricia		00775	00001	DC	C.3.1.2	C.3.1.3	--	--
			00775	00002	DC	C.7.4	--	--	--
			00775	00003	DC	C.7.4.2	--	--	--
			00775	00004	DC	C.3.1.2	C.3.1.3	--	--
			00775	00005	DC	C.3.2	--	--	--
			00775	00006	DC	C.7.4	--	--	--
			00775	00007	DC	C.4.1.5	--	--	--
			00775	00008	DC	C.7.1.1.5	C.4.1.3.3	--	--
	Thompson-Hanson, Patricia A.		02204	00001	DC	C.3.1.3	--	--	--
			02204	00002	DC	C.7.4	--	--	--
			02204	00003	DC	C.7.4.2	--	--	--
			02204	00004	DC	C.7.2	C.4.2	--	--
			02204	00005	----------	C.3.2	--	--	--
			02204	00006	DC	C.7.2	C.7.4	--	--
			02204	00007	DC	C.4.1.5	--	--	--
			02204	00008	DC	C.4.1.3.3	C.4.1.3.4	--	--
	Thurman, Dr. David J.	Physicians for Social Resp.	01054	00001	----------	C.2.7	--	--	--
			01054	00002	----------	C.2.1.1	--	--	--
			01054	00003	----------	C.3.1.2	--	--	--
			01054	00004	----------	C.2.4.1	--	--	--
			01054	00005	----------	C.3.1.2	--	--	--
	Till, Thomas		00732	00001	----------	C.3.4.3	--	--	--
			00732	00002	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00732	00003	DC	C.7.2.4	--	--	--
			00732	00004	----------	C.3.1.2	--	--	--
	Tippets, Terry		00789	00001	----------	C.3.1.2	--	--	--
			00789	00002	----------	C.3.1.2	--	--	--
			00789	00003	----------	C.3.4.4	--	--	--
	Tooley, John		01078	00001	DC	C.4.1.2.1	--	--	--
			01078	00002	DC	C.4.1.2.1	--	--	--
			01078	00003	DC	C.4.1.2.1	--	--	--
			01078	00004	DC	C.4.1.2.1	--	--	--
			01078	00005	DC	C.4.1.2.1	--	--	--
	Trittschuh, Travis		00738	00001	----------	C.3.4.4	--	--	--
			00738	00002	----------	C.2.4.1	--	--	--
			00738	00003	DC	C.7.2.7	--	--	--
			00738	00004	DC	C.5.3	--	--	--
			00738	00005	----------	C.2.5.2	--	--	--
			00738	00006	DC	C.7.2.4	--	--	--
	Turner, Barbara		02244	00001	----------	C.3.4.4	--	--	--
			02244	00002	----------	C.7.3	--	--	--
	Unsworth, Alan		00817	00001	DC	C.7.2.4	--	--	--
			00817	00002	DC	C.7.2.4	--	--	--
			00817	00003	DC	C.7.2.4	--	--	--
	Valdez, Richard		00766	00001	DC	C.7.2.2	--	--	--
			00766	00002	----------	C.2.1.3	--	--	--
			00766	00003	DC	C.4.1.3.2	--	--	--
			00766	00004	DC	C.7.2.2	--	--	--
			00766	00005	DC	C.7.2.2	--	--	--
	Valdez, Dr. Richard A.		02200	00001	DC	C.7.2.2	--	--	--
			02200	00002	----------	C.2.1.2	--	--	--
			02200	00003	DC	C.4.1.3.2	--	--	--
			02200	00004	DC	C.7.2.2	--	--	--
			02200	00005	DC	C.7.2.2	--	--	--
	Van Frank, Alison		00799	00001	DC	C.7.2	--	--	--
			00799	00002	----------	C.3.2	--	--	--
	Van Frank, Alison		02259	00001	DC	C.7.2	--	--	--
			02259	00002	DC	C.7.2	--	--	--
			02259	00003	----------	C.3.4.4	--	--	--
	Van Gundy, Douglas		00755	00001	----------	C.3.1.2	--	--	--
			00755	00002	DC	C.7.2.8	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00755	00003	DC	C.7.2.4	--	--	--
			00755	00004	DC	C.7.2.5	--	--	--
			00755	00005	DC	C.7.2.6	--	--	--
			00755	00006	----------	C.3.1.2	--	--	--
	Van Gundy, Douglas A.		02193	00001	----------	C.3.1.2	--	--	--
			02193	00002	DC	C.7.2.8	--	--	--
			02193	00003	DC	C.7.2.4	--	--	--
			02193	00004	DC	C.7.2.5	--	--	--
			02193	00005	DC	C.7.2.6	--	--	--
			02193	00006	----------	C.3.1.2	--	--	--
	Velez, Valerie S.		02207	00001	----------	C.3.1.2	--	--	--
			02207	00002	----------	C.3.1.2	--	--	--
			02207	00003	----------	C.3.1.2	--	--	--
	Velez, Valerie S.		00780	00001	----------	C.3.1.2	--	--	--
			00780	00002	----------	C.3.1.2	--	--	--
			00780	00003	----------	C.3.1.2	--	--	--
	Walker, Grady		00788	00001	DC	C.3.1.2	C.3.1.3	--	--
			00788	00002	----------	C.3.1.2	--	--	--
			00788	00003	DC	C.7.1.1.3	C.7.2.5	--	--
			00788	00004	DC	C.7.1.1.3	C.7.2.3	--	--
			00788	00005	DC	C.7.2.4	--	--	--
			00788	00006	DC	C.7.2.4	--	--	--
			00788	00007	DC	C.7.2	--	--	--
			00788	00008	----------	C.3.2	--	--	--
			00788	00009	----------	C.3.4.4	--	--	--
			00788	00010	----------	C.2.8.1	--	--	--
	Walker, Carol		00800	00001	----------	C.2.4.3	--	--	--
			00800	00002	----------	C.2.4.3	--	--	--
			00800	00003	----------	C.3.1.2	--	--	--
			00800	00004	----------	C.3.1.1	--	--	--
			00800	00005	----------	C.3.1.2	--	--	--
			00800	00006	----------	C.3.1.2	--	--	--
			00800	00007	----------	C.2.4.1	--	--	--
	Walker, Carol		01065	00001	----------	C.3.4.4	--	--	--
			01065	00002	----------	C.3.1.2	--	--	--
			01065	00003	----------	C.3.4.4	--	--	--
			01065	00004	----------	C.3.1.2	--	--	--
			01065	00005	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01065	00006	----------	C.3.1.2	--	--	--
			01065	00007	DC	C.7.2.4	--	--	--
			01065	00008	----------	C.2.3.3	--	--	--
			01065	00009	----------	C.2.3.3	--	--	--
			01065	00010	----------	C.3.4.4	--	--	--
			01065	00011	----------	C.3.4.4	--	--	--
	Walker, Grady		02212	00001	DC	C.3.2	--	--	--
			02212	00002	----------	C.3.1.2	--	--	--
			02212	00003	DC	C.7.1.1.5	C.7.2.5	C.4.1.3.4	--
			02212	00004	DC	C.7.1.1.3	C.7.2.3	--	--
			02212	00005	DC	C.7.2.4	--	--	--
			02212	00006	DC	C.7.2.4	--	--	--
			02212	00007	DC	C.7.2	--	--	--
			02212	00008	----------	C.3.2	--	--	--
			02212	00009	----------	C.3.4.4	--	--	--
			02212	00010	----------	C.3.4.4	C.2.8.1	--	--
	Walker, Mrs. C. Barry		02217	00001	----------	C.3.1.2	--	--	--
			02217	00002	----------	C.3.1.2	--	--	--
			02217	00003	----------	C.3.1.2	--	--	--
			02217	00004	----------	C.2.2	--	--	--
			02217	00005	----------	C.3.1.2	--	--	--
			02217	00006	----------	C.2.3.3	--	--	--
			02217	00007	----------	C.3.1.2	--	--	--
			02217	00008	----------	C.3.4.4	--	--	--
	Walker, Jimmie	County Commissioner	02096	00001	----------	C.2.1.1	--	--	--
			02096	00002	----------	C.3.4.4	--	--	--
			02096	00003	----------	C.3.4.2.1	C.3.4.3	--	--
			02096	00004	----------	C.7.4	C.7.1.2	--	--
			02096	00005	----------	C.3.4.3	--	--	--
			02096	00006	DC	C.7.4.2	--	--	--
			02096	00007	----------	C.3.4.4	--	--	--
	Wallace, Matthew H.		00124	00001	----------	C.2.3.3	--	--	--
			00124	00002	DC	C.4.1.1	--	--	--
			00124	00003	DC	C.7.1.1	--	--	--
			00124	00004	DC	C.7.1.1	--	--	--
			00124	00005	DC	C.7.1.2	--	--	--
			00124	00006	DC	C.7.1.1	--	--	--
	Wallace, Anne		00451	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			00451	00002	DC	C.7.2	--	--	--
	Wallingford, Lucy		00730	00001	DC	C.7.4.2	--	--	--
			00730	00002	DC	C.7.3	--	--	--
			00730	00003	DC	C.7.4.2	--	--	--
			00730	00004	DC	C.7.4.2	--	--	--
			00730	00005	DC	C.7.4.2	--	--	--
	Warnick, Rick		00783	00001	DC	C.3.1.2	C.3.1.3	--	--
			00783	00002	DC	C.3.1.2	C.3.1.3	--	--
			00783	00003	DC	C.7.2.6	--	--	--
			00783	00004	DC	C.7.2.4	--	--	--
			00783	00005	DC	C.7.4	--	--	--
			00783	00006	DC	C.7.4	--	--	--
			00783	00007	----------	C.3.1.2	--	--	--
	Warnick, Richard M.	Utah Wilderness Association	00488	00001	DC	C.3.2	--	--	--
			00488	00002	DC	C.3.1.3	--	--	--
			00488	00003	DC	C.7.2.6	--	--	--
			00488	00004	DC	C.7.2	--	--	--
			00488	00005	DC	C.7.2.3	--	--	--
			00488	00006	DC	C.7.2.5	--	--	--
			00488	00007	DC	C.7.2.4	--	--	--
			00488	00008	DC	C.7.2.4	--	--	--
			00488	00009	DC	C.7.4.2	--	--	--
			00488	00010	DC	C.7.4.2	--	--	--
			00488	00011	DC	C.3.2	--	--	--
			00488	00012	----------	C.3.1.2	--	--	--
	Warnick, Rich		02209	00001	----------	C.3.2	--	--	--
			02209	00002	DC	C.7.1	--	--	--
			02209	00003	DC	C.5.9	--	--	--
			02209	00004	DC	C.7.2.6	--	--	--
			02209	00005	DC	C.7.2.6	--	--	--
			02209	00006	DC	C.7.2.6	--	--	--
			02209	00007	DC	C.7.2	--	--	--
			02209	00008	DC	C.7.2.3	--	--	--
			02209	00009	DC	C.4.1.3.3	C.7.2.3	--	--
			02209	00010	DC	C.7.2.5	--	--	--
			02209	00011	DC	C.7.2.4	--	--	--
			02209	00012	DC	C.7.2.4	--	--	--
			02209	00013	DC	C.7.2.1	C.7.2.4	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			02209	00014	DC	C.7.4.2	--	--	--
			02209	00015	DC	C.7.4.2	--	--	--
			02209	00016	----------	C.3.2	--	--	--
			02209	00017	----------	C.3.1.2	--	--	--
	Werzinski, Ronald		00816	00001	----------	C.3.1.2	--	--	--
			00816	00002	----------	C.2.1.1	--	--	--
			00816	00003	DC	C.7.5	--	--	--
			00816	00004	DC	C.7.1.1.4	C.7.2.4	C.7.1.1.5	C.7.2.5
			00816	00005	DC	C.7.1	--	--	--
			00816	00006	DC	C.7.4	--	--	--
	White, Mrs. Don		00002	00001	----------	C.2.1.1	--	--	--
			00002	00002	----------	C.2.1.1	--	--	--
	White, Adair		00727	00001	DC	C.4.1.5	C.2.1.5	--	--
			00727	00002	DC	C.7.4.2	--	--	--
			00727	00003	DC	C.7.4.2	--	--	--
	White, Adell		02097	00001	DC	C.7.4	--	--	--
			02097	00002	DC	C.7.4.2	--	--	--
			02097	00003	----------	C.3.4.2.2	--	--	--
	Wiggans, Tamara		00924	00001	DC	C.7.4	--	--	--
			00924	00002	DC	C.7.2.4	--	--	--
			00924	00004	----------	C.3.2	--	--	--
			00924	00005	----------	C.3.2	--	--	--
	Wilburn, Margaret		01055	00001	----------	C.3.1.2	--	--	--
			01055	00002	DC	C.7.1.1.9	--	--	--
			01055	00003	DC	C.7.1.1.5	C.7.1.1.4	--	--
			01055	00004	DC	C.7.4	--	--	--
			01055	00005	DC	C.7.1.2	--	--	--
			01055	00006	DC	C.7.3	--	--	--
			01055	00007	DC	C.6.5	--	--	--
	Wilcox, James		01057	00001	----------	C.3.4.4	--	--	--
			01057	00002	DC	C.7.2.5	--	--	--
			01057	00003	DC	C.7.1	--	--	--
			01057	00004	DC	C.5.1	--	--	--
			01057	00005	DC	C.7.2.4	--	--	--
	Willet, & Chapman, S.D. & D.S.	Utah State	01393	00001	DC	C.4.1.2.2	--	--	--
			01393	00002	DC	C.5.1	--	--	--
			01393	00003	DC	C.4.1.2.2	--	--	--
			01393	00004	DC	C.5.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01393	00005	DC	C.5.1	C.4.1.2.2	--	--
	Willigan, J. Dennis		00765	00001	DC	C.7.4	--	--	--
			00765	00002	----------	C.3.4.4	--	--	--
			00765	00003	DC	C.7.4.2	--	--	--
	Willigan, Dr. J. Dennis		00765	00004	DC	C.7.4.2	--	--	--
	Willigan, Dr. J. Dennis	The University of Utah	00120	00001	DC	C.7.4	--	--	--
			00120	00002	----------	C.3.4.2.2	--	--	--
			00120	00003	DC	C.7.4	--	--	--
			00120	00004	----------	C.3.4.2.2	--	--	--
			00168	00001	DC	C.7.4	--	--	--
		University of Utah	02199	00001	DC	C.7.4	--	--	--
			02199	00002	----------	C.3.1.2	--	--	--
			02199	00003	DC	C.7.2.4	--	--	--
			02199	00004	DC	C.7.4.2	--	--	--
	Wilson, Mayor Ted L.	Salt Lake City Corporation	02190	00001	----------	C.3.1.2	--	--	--
	Wolfe, Michael		01314	00001	----------	C.3.1.2	--	--	--
			01314	00002	DC	C.7.2	--	--	--
			01314	00003	DC	C.4.1.3.4	C.7.1.1.5	C.7.2.5	--
			01314	00004	DC	C.7.4	--	--	--
			01314	00005	DC	C.7.4	C.7.2.4	--	--
	Wright, Marilyn M.		00455	00001	----------	C.3.4.4	--	--	--
	Yasuda, Don		00746	00001	DC	C.7.4.2	--	--	--
	Young, Marianna		01295	00001	----------	C.3.1.2	--	--	--
			01295	00003	DC	C.3.1.3	--	--	--
			01295	00004	DC	C.7.2.1	--	--	--
			01295	00005	DC	C.7.2.4	C.7.2.5	--	--
			01295	00006	DC	C.7.2.6	C.4.1.3.6	--	--
			01295	00007	----------	C.3.4.4	--	--	--
	Zaccardi, Mike		00819	00001	----------	C.3.1.2	--	--	--
			00819	00002	----------	C.2.8.1	--	--	--
			00819	00003	DC	C.5.1	C.7.2.8	--	--
			00819	00004	----------	C.3.1.2	--	--	--
	Zeisloft, John	Utah, High Level Nuclear Waste	01394	00001	DC	C.4.1.1.1	--	--	--
			01394	00002	DC	C.4.1.1.3	--	--	--
			01394	00003	DC	C.4.1.1.5	--	--	--
			01394	00004	DC	C.4.1.1.5	--	--	--
			01394	00005	DC	C.4.1.1.3	--	--	--
			01394	00007A	DC	C.4.1.1.8	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Utah (continued)									
			01394	00007B	DC	C.4.1.2.2	--	--	--
			01394	00007C	DC	C.5.1	--	--	--
			01394	00008	DC	C.4.1.1.5	--	--	--
			01394	00010	DC	C.4.1.1.2	--	--	--
			01394	00011	DC	C.4.1.1.2	--	--	--
			01394	00012A	DC	C.4.1.1.3	--	--	--
			01394	00012B	DC	C.4.1.2.2	--	--	--
			01394	00013	DC	C.4.1.1.3	--	--	--
			01394	00014	DC	C.4.1.1.3	--	--	--
			01394	00015A	DC	C.4.1.1.3	--	--	--
			01394	00015B	DC	C.4.1.1.8	--	--	--
			01394	00016	DC	C.4.1.1.5	--	--	--
			01394	00017	DC	C.4.1.1.5	--	--	--
			01394	00018	DC	C.4.1.1.5	--	--	--
			01394	00019	DC	C.4.1.1.5	--	--	--
			01394	00020	DC	C.5.11	--	--	--
			01394	00021	DC	C.4.1.1.8	--	--	--
			01394	00022	DC	C.4.1.1.8	--	--	--
			01394	00023	DC	C.4.1.2.2	--	--	--
			01394	00024	DC	C.6.2	--	--	--
			01394	00025	DC	C.5.1	--	--	--
			01394	00026	DC	C.5.3	--	--	--
			01394	00027A	DC	C.5.6	--	--	--
			01394	00027B	DC	C.5.7	--	--	--
			01394	00028	DC	C.5.8	--	--	--
			01394	00029	----------	C.2.7	--	--	--
			01394	00031	DC	C.4.2.1	--	--	--
			01394	00032	DC	C.4.1.1.1	--	--	--
			01394	00033	DC	C.5.1	--	--	--
			01394	00034	DC	C.4.1.2.2	C.4.1.1.2	--	--
	Zimmerman, John		00726	00001	----------	C.3.4.2	--	--	--
			00726	00002	----------	C.3.4.2.1	C.3.4.3	--	--
			00726	00003	DC	C.7.1.2	C.7.4	--	--
			00726	00005	----------	C.3.4.3	--	--	--
			00726	00006	DC	C.7.4.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Vermont									
	Elton, Wallace		01070	00001	----------	C.3.1.2	--	--	--
			01070	00002	DC	C.7.2.4	--	--	--
			01070	00003	DC	C.7.2.5	--	--	--
Virginia									
	Besore, Mary T.		00049	00001	DC	C.7.2	--	--	--
	Faglie, Frances F.		00079	00001	DC	C.7.1.1	--	--	--
	Hotchkiss, Mr. & Mrs. C.T.		00061	00001	----------	C.3.4.4	--	--	--
			00061	00002	DC	C.7.2	--	--	--
	Lottinville, Wayne		00057	00001	DC	C.7.2	--	--	--
			00057	00002	DC	C.7.2	--	--	--
			00057	00003	DC	C.7.4	--	--	--
	Mueller, Robert F.		02607	00001	----------	C.3.4.4	--	--	--
			02607	00002	DC	C.5.1	--	--	--
			02607	00003	----------	C.3.4.4	--	--	--
	Pettit, Marie B.		00191	00001	----------	C.3.1.2	--	--	--
			00191	00002	DC	C.7.2	--	--	--
			00191	00003	DC	C.7.4	--	--	--
	Ries, Ken P.		00081	00001	----------	C.3.4.4	--	--	--
			00081	00002	DC	C.7.2	C.7.4	--	--
	Robertson, John B.	Off. of Hazardous Waste Hydro.	01738	00001	----------	C.2.8.2	--	--	--
	Sandy, Lawrence P.		01555	00001	DC	C.7.1.2	--	--	--
			01555	00002	----------	C.3.1.2	--	--	--
	Sprague, Elizabeth F.		00622	00001	DC	C.7.2.4	--	--	--
			00622	00002	DC	C.7.2.4	--	--	--
			00622	00003	DC	C.7.2.4	--	--	--
			00622	00004	----------	C.3.1.2	--	--	--
			00622	00005	DC	C.7.2.6	--	--	--
Washington									
		Nuclear Waste Board	02681	00037	----------	C.2.4.1	--	--	--
			02681	00039B	----------	C.2.4.1	--	--	--
			02681	00039C	----------	C.2.4.1	--	--	--
			02681	00039D	----------	C.2.4.1	--	--	--
			02681	00039E	----------	C.2.4.1	--	--	--
			02681	00039F	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02681	00039G	----------	C.2.4.1	--	--	--
			02681	00039H	----------	C.2.4.1	C.7.3	--	--
			02681	00040A	----------	C.2.4.1	--	--	--
			02681	00040B	----------	C.2.4.1	--	--	--
			02681	00044	----------	C.2.4.1	--	--	--
			02681	00115	----------	C.3.4	--	--	--
			02681	00116	----------	C.3.4.3	--	--	--
			02681	00117	----------	C.3.4.3	--	--	--
			02681	00118	----------	C.3.4.3	--	--	--
			02681	00119	----------	C.3.4.3	--	--	--
			02681	00120	----------	C.3.4.3	--	--	--
	Allyn, Robert C.		00171	00001	----------	C.3.4.4	--	--	--
	Amundson, Dr. Bruce		02536	00003	----------	C.3.1.2	--	--	--
		E.Wash Chapt,Phys Social Respon.	01535	00006	----------	C.3.4.2.1	--	--	--
	Anderson, James		01357	00003	----------	C.2.7	--	--	--
			01357	00005	----------	C.2.6.1	--	--	--
			01357	00007	----------	C.2.4.1	--	--	--
			01357	00008	----------	C.3.4.4	--	--	--
			01357	00009	----------	C.3.1.1	--	--	--
			01357	00010	----------	C.2.1.1	--	--	--
			01357	00011	----------	C.2.3.1	--	--	--
	Anderson, Dr. Tony		02529	00002	----------	C.2.4.1	--	--	--
			02529	00003	----------	C.2.4.1	--	--	--
	Anderson, Richard L.		02538	00001	----------	C.2.4.1	--	--	--
			02538	00002	----------	C.2.3.1	--	--	--
	Andrews, Scott		02103	00002	----------	C.3.4.4	--	--	--
			02103	00003	----------	C.2.4.1	--	--	--
	Anonymous		01098	00001	----------	C.3.4.4	--	--	--
			01153	00001	----------	C.2.8.1	--	--	--
	Anonymous		02410	00001	----------	C.2.4.1	--	--	--
			02410	00002	----------	C.2.6	--	--	--
			02410	00003	----------	C.2.4.1	--	--	--
	Anonymous		02425	00003	----------	C.2.2.3	--	--	--
			02425	00009	----------	C.3.4	--	--	--
	Anonymous		02428	00003	----------	C.3.1.2	--	--	--
			02428	00004	----------	C.2.4.1	--	--	--
		Petition	02588	00001	----------	C.3.4.4	--	--	--
		Tri-City Nuc. Industrial Council	02300	00001	----------	C.2.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02300	00002	----------	C.2.1	--	--	--
			02300	00003	----------	C.2.1.1	--	--	--
		WASHPIRG	02630	00001A	----------	C.3.1.1	--	--	--
			02630	00001B	----------	C.3.4.4	--	--	--
			02630	00001C	----------	C.3.1.1	--	--	--
			02630	00002	----------	C.2.2	--	--	--
			02630	00003	----------	C.2.4.1	--	--	--
			02630	00004	----------	C.3.1.2	--	--	--
			02630	00005	----------	C.2.6.1	--	--	--
			02630	00006	----------	C.2.1.1	--	--	--
		Nuclear Waste Board	02682	00001	----------	C.3.4.4	--	--	--
			02682	00002A	----------	C.3.4.4	--	--	--
			02682	00002D	----------	C.3.1.2	--	--	--
			02682	00003	----------	C.2.5.2	--	--	--
			02682	00004	----------	C.3.4.4	--	--	--
			02682	00005	----------	C.3.1.2	--	--	--
			02682	00007	----------	C.2.4.1	--	--	--
			02682	00010	----------	C.3.4.1	--	--	--
			02682	00011	----------	C.3.1.2	--	--	--
			02682	00012	----------	C.2.8.2	--	--	--
			02682	00013	----------	C.2.5.2	--	--	--
			02682	00014	----------	C.3.1.2	--	--	--
			02682	00015	----------	C.3.1.2	--	--	--
			02682	00016	----------	C.3.4.2.2	--	--	--
			02682	00017	----------	C.2.4.2	--	--	--
			02682	00018	----------	C.3.1.2	--	--	--
			02682	00022	----------	C.3.1.1	--	--	--
			02682	00023	----------	C.2.1.1	--	--	--
			02682	00024	----------	C.3.4.4	--	--	--
			02682	00027	----------	C.2.3.1	--	--	--
			02682	00029	----------	C.2.4.1	--	--	--
			02682	00031	----------	C.2.3.1	--	--	--
			02682	00032	----------	C.3.4.4	--	--	--
			02682	00036	----------	C.2.6.1	--	--	--
			02682	00037	----------	C.3.4.4	--	--	--
			02682	00038A	----------	C.3.1.2	C.5.1	--	--
			02682	00041	----------	C.2.3.1	--	--	--
			02682	00042	----------	C.2.3.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02682	00049	----------	C.3.4.3	--	--	--
			02682	00050	----------	C.3.4.1	--	--	--
			02682	00051	----------	C.2.3.1	--	--	--
			02682	00052	----------	C.3.1.2	--	--	--
			02682	00053	----------	C.3.4.3	--	--	--
			02682	00054	----------	C.3.1.2	--	--	--
			02682	00055	----------	C.2.3.1	C.5.11	--	--
			02682	00064	----------	C.3.4.4	--	--	--
			02682	00066	----------	C.2.7	--	--	--
			02682	00068	----------	C.2.4.2	--	--	--
			02682	00069	----------	C.3.4.4	--	--	--
			02682	00070	----------	C.2.4.3	--	--	--
			02682	00071	----------	C.3.4.3	--	--	--
			02682	00072	----------	C.3.1.2	--	--	--
			02682	00073	----------	C.3.4.3	--	--	--
			02682	00078	----------	C.2.1.1	--	--	--
			02682	00079	----------	C.3.1.2	--	--	--
			02682	00080	----------	C.3.1.2	--	--	--
			02682	00081	----------	C.2.4.3	--	--	--
			02682	00085	----------	C.3.1.1	--	--	--
			02682	00092	----------	C.2.6	--	--	--
			02682	00097	----------	C.3.1.1	--	--	--
			02682	00098	----------	C.2.3.2	--	--	--
			02682	00099	----------	C.2.2.1	--	--	--
			02682	00100	----------	C.2.1.1	--	--	--
			02682	00101	----------	C.3.1.2	--	--	--
			02682	00104	----------	C.2.7	--	--	--
			02682	00105	----------	C.2.7	--	--	--
			02682	00106	----------	C.3.1.2	--	--	--
			02682	00107	----------	C.2.8.2	--	--	--
	Ardaiz, Martha C.		00239	00001	----------	C.3.4.4	--	--	--
	Ardaiz, Martha C.		00341	00001	----------	C.3.1.2	--	--	--
	Arter, Dennis R.	TICOMP	01506	00001	----------	C.3.1.1	--	--	--
			01506	00002	----------	C.2.7.1	--	--	--
	Ashburn, Dan		02323	00001	----------	C.2.8	--	--	--
	Ashburn, Daniel J.		02625	00001	----------	C.2.8.3	--	--	--
	Bagley,Jr., Dr. Charles M.		00190	00001	DC	C.7.2	--	--	--
			00190	00002	DC	C.4.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			00190	00003	DC	C.7.2	--	--	--
	Bailey, Lyle C.		01299	00001	----------	C.3.4.4	--	--	--
	Bailie, Toni K.		01509	00001	----------	C.3.4.4	--	--	--
	Baker, Kris		00298	00001	----------	C.3.4.4	--	--	--
	Baker, George		00502	00001	----------	C.2.8.2	--	--	--
			00502	00002	----------	C.3.4.4	--	--	--
			00502	00003	----------	C.2.5.2	--	--	--
			00502	00004	----------	C.2.8.1	--	--	--
	Baker, Roger		01104	00001	----------	C.3.4.4	--	--	--
			01104	00002	----------	C.3.4.4	--	--	--
			01104	00003	----------	C.2.3.1	--	--	--
			01104	00005	----------	C.3.4.4	--	--	--
	Barner, George		02326	00006	----------	C.3.1.1	--	--	--
			02326	00007	----------	C.3.4	--	--	--
			02326	00008	----------	C.3.4	--	--	--
	Barnes, Ronald		02402	00001	----------	C.2.3.3	--	--	--
			02402	00002	----------	C.2.3.1	--	--	--
	Barnes, Ronald	Save The Resources Committee	01504	00001	----------	C.3.1.2	--	--	--
			01504	00002	----------	C.3.1.2	--	--	--
			01504	00004	----------	C.3.1.2	--	--	--
			01504	00005	----------	C.2.2	--	--	--
			01504	00006	----------	C.2.2.1	--	--	--
			01504	00008	----------	C.3.4.4	--	--	--
	Bartlett, Donald H.		00219	00001	----------	C.7.3	--	--	--
			00219	00003	----------	C.3.4.2	--	--	--
	Bartlett, John		02431	00002	----------	C.3.4.4	--	--	--
	Bass, Don		02436	00001	----------	C.3.4.4	--	--	--
	Bauermeister, Jim		02319	00001	----------	C.3.1.2	--	--	--
	Bauermeister, Jim		02623	00001	----------	C.3.1.2	--	--	--
			02623	00006	----------	C.2.4.1	--	--	--
			02623	00008	----------	C.3.4.4	--	--	--
	Beadle, Deborah		00208	00001	----------	C.7.3	--	--	--
			00208	00003	----------	C.3.4.4	--	--	--
			00208	00005	----------	C.2.3.2	--	--	--
			00208	00006	----------	C.3.4.4	--	--	--
	Beadle, Deborah		02265	00001	----------	C.2.4.1	--	--	--
			02265	00002	----------	C.2.4.1	--	--	--
	Beadle, Deborah		02302	00001	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02302	00002	----------	C.2.4.1	--	--	--
	Beare, Dr. John A.	Social & Health Services	01518	00001	----------	C.2.3.1	--	--	--
			01518	00003	----------	C.2.3.1	--	--	--
			01518	00006	----------	C.2.8.3	--	--	--
			01518	00010	----------	C.2.8.3	--	--	--
			01518	00014	----------	C.2.4.1	--	--	--
			01518	00016	----------	C.2.4.1	--	--	--
			01518	00017	----------	C.3.4.3	C.2.7	--	--
	Beckham, Ruth H.		00419	00001	----------	C.3.4.4	--	--	--
	Beglin, Janice A.		01588	00001	----------	C.2.6	--	--	--
			01588	00002	----------	C.3.4.4	--	--	--
			01588	00003	----------	C.3.1.2	--	--	--
			01588	00004	----------	C.2.1.1	--	--	--
	Beglin, H. E.		01589	00001	----------	C.2.6	--	--	--
			01589	00002B	----------	C.3.1.2	--	--	--
			01589	00003	----------	C.3.1.2	--	--	--
			01589	00004	----------	C.2.1.1	--	--	--
	Benson, William	SW Washington Healh District	01234	00002	----------	C.3.1.2	--	--	--
			01234	00003	----------	C.3.1.2	--	--	--
	Berg, Mrs. Norma		00111	00001	----------	C.3.4.4	--	--	--
			00111	00003	----------	C.3.4.4	--	--	--
	Bishop, Warren A.		02311	00001	----------	C.2.1.2	--	--	--
			02311	00002	----------	C.3.4.3	--	--	--
			02311	00003	----------	C.3.1.2	--	--	--
			02311	00004	----------	C.2.7.1	--	--	--
			02311	00005	----------	C.2.7.1	--	--	--
			02311	00006	----------	C.2.2	--	--	--
			02311	00007	----------	C.2.6.1	--	--	--
			02311	00009	----------	C.5.11	C.5.3	--	--
			02311	00013	----------	C.2.5.1	--	--	--
			02311	00014	----------	C.2.4.1	--	--	--
			02311	00015	----------	C.2.4.1	--	--	--
	Bishop, Warren A.	Nuclear Waste Board	02680	00001	----------	C.3.4.3	--	--	--
			02680	00002	----------	C.3.1.2	--	--	--
			02680	00003	----------	C.3.4.3	--	--	--
			02680	00004	----------	C.2.2	--	--	--
			02680	00005	----------	C.2.7.1	--	--	--
			02680	00006	----------	C.2.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02680	00007	----------	C.3.1.2	--	--	--
			02680	00009	----------	C.2.4.1	--	--	--
			02680	00010	----------	C.2.4.1	--	--	--
			02680	00011	----------	C.3.4.3	--	--	--
			02680	00012	----------	C.2.4.1	--	--	--
			02680	00013	----------	C.2.4.1	--	--	--
			02680	00014	----------	C.2.4.1	--	--	--
			02680	00015	----------	C.2.5.1	--	--	--
			02680	00016	----------	C.2.4.1	--	--	--
			02680	00017	----------	C.2.4.1	--	--	--
			02680	00018	----------	C.2.4.1	--	--	--
			02680	00019	----------	C.2.4.1	--	--	--
			02680	00021	----------	C.2.4.1	--	--	--
			02680	00022	----------	C.2.6.1	--	--	--
			02680	00025	----------	C.2.6.1	--	--	--
	Bishop, Warren A.	WA Nuclear Waste Board	01496	00001	----------	C.2.7.1	--	--	--
			01496	00002	----------	C.2.3.3	--	--	--
			01496	00006	----------	C.2.5.1	--	--	--
	Bishop, Warren A.		02707	00001	----------	C.2.5.1	--	--	--
			02707	00002	----------	C.2.8.2	--	--	--
			02707	00003	----------	C.3.1.2	--	--	--
			02707	00004	----------	C.3.1.1	--	--	--
			02707	00005	----------	C.3.1.2	--	--	--
			02707	00013	----------	C.2.4.1	--	--	--
			02707	00014	----------	C.2.4.1	--	--	--
			02707	00015	----------	C.2.4.1	--	--	--
			02707	00016	----------	C.2.4.1	--	--	--
			02707	00017	----------	C.2.4.1	--	--	--
			02707	00018	----------	C.2.4.1	--	--	--
			02707	00019	----------	C.2.4.1	--	--	--
			02707	00020	----------	C.2.4.1	--	--	--
			02707	00021	----------	C.2.4.1	--	--	--
			02707	00022	----------	C.2.4.1	--	--	--
			02707	00023	----------	C.2.4.1	--	--	--
			02707	00025	----------	C.2.4.1	--	--	--
			02707	00026	----------	C.2.4.1	C.7.3	--	--
	Bishop, Warren A.		01511	00001	----------	C.3.4.3	--	--	--
			01511	00002	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01511	00003	----------	C.3.4.3	--	--	--
			01511	00004	----------	C.3.4.3	--	--	--
			01511	00005	----------	C.3.4.3	--	--	--
			01511	00006	----------	C.3.4.3	--	--	--
			01511	00007	----------	C.3.4.3	--	--	--
			01511	00008	----------	C.3.4.3	--	--	--
			01511	00009	----------	C.3.4.3	--	--	--
			01511	00010	----------	C.3.4.3	--	--	--
			01511	00011	----------	C.3.4.3	--	--	--
			01511	00012	----------	C.3.4.3	--	--	--
			01511	00013	----------	C.3.4.3	--	--	--
			01511	00014	----------	C.3.4.3	--	--	--
			01511	00015	----------	C.3.4.4	--	--	--
			01511	00016	----------	C.3.4.3	--	--	--
			01511	00017	----------	C.3.4.4	--	--	--
	Bishop, Warren A.	WA State Nuclear Waste Board	01497	00002	----------	C.2.1.1	--	--	--
			01497	00003	----------	C.2.1.2	--	--	--
			01497	00005	----------	C.3.1.2	--	--	--
			01497	00006	----------	C.3.1.2	--	--	--
			01497	00007	----------	C.2.6.1	--	--	--
			01497	00008	----------	C.2.8.2	--	--	--
			01497	00009	----------	C.2.5.2	--	--	--
			01497	00011	----------	C.3.4	--	--	--
			01497	00012	----------	C.3.4.4	--	--	--
			01497	00017	----------	C.3.4.3	--	--	--
			01497	00019	----------	C.2.4.3	--	--	--
			01497	00023	----------	C.3.1.2	--	--	--
			01497	00025	----------	C.2.1.3	--	--	--
			01497	00026	----------	C.3.4.4	--	--	--
			01497	00027	----------	C.3.4.4	--	--	--
			01497	00028	----------	C.2.3.1	--	--	--
			01497	00029	----------	C.2.1.1	--	--	--
			01497	00030	----------	C.3.1.2	--	--	--
			01497	00032	----------	C.3.4.4	--	--	--
			01497	00034	----------	C.3.4.4	--	--	--
			01497	00036	----------	C.2.2.1	--	--	--
			01497	00041	----------	C.2.8.3	--	--	--
			01497	00042	----------	C.2.2.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01497	00044	----------	C.2.6.2	--	--	--
			01497	00045	----------	C.2.8.2	--	--	--
			01497	00046	----------	C.2.8.2	--	--	--
			01497	00047	----------	C.2.8.2	--	--	--
			01497	00048	----------	C.2.1.1	--	--	--
			01497	00049	----------	C.3.4.4	--	--	--
			01497	00051	----------	C.3.1.2	--	--	--
			01497	00052	----------	C.3.1.2	--	--	--
			01497	00053	----------	C.2.3.2	--	--	--
			01497	00054	----------	C.7.3	--	--	--
			01497	00055	----------	C.2.2.1	--	--	--
			01497	00056	----------	C.2.2.1	--	--	--
			01497	00057	----------	C.3.1.2	--	--	--
			01497	00058	----------	C.3.1.2	--	--	--
			01497	00059	----------	C.2.3.1	--	--	--
			01497	00060	----------	C.2.3.1	--	--	--
			01497	00061	----------	C.2.4.1	--	--	--
			01497	00063	----------	C.2.4.1	--	--	--
			01497	00066	----------	C.2.8.1	--	--	--
			01497	00067	----------	C.2.6.2	--	--	--
			01497	00068	----------	C.2.3.1	--	--	--
			01497	00069	----------	C.2.3.1	--	--	--
			01497	00070	----------	C.2.5.1	--	--	--
			01497	00071	----------	C.2.1.1	--	--	--
			01497	00072	----------	C.2.1.2	--	--	--
			01497	00073	----------	C.3.4.4	--	--	--
			01497	00075	----------	C.2.6	--	--	--
			01497	00076	----------	C.2.1	--	--	--
			01497	00077	----------	C.3.1.2	--	--	--
			01497	00078	----------	C.2.1.2	--	--	--
			01497	00079	----------	C.3.1.2	--	--	--
			01497	00081	----------	C.3.1.2	--	--	--
			01497	00082	----------	C.2.3.2	--	--	--
			01497	00083	----------	C.2.8.2	--	--	--
			01497	00085	----------	C.2.8.1	--	--	--
			01497	00086	----------	C.2.8.3	--	--	--
			01497	00087	----------	C.2.3.1	--	--	--
			01497	00088	----------	C.2.8.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01497	00089	----------	C.2.1.2	--	--	--
			01497	00090	----------	C.2.5.1	--	--	--
			01497	00091	----------	C.3.4.4	--	--	--
			01497	00092	----------	C.2.1.2	--	--	--
			01497	00093	----------	C.2.1.1	--	--	--
			01497	00098	----------	C.2.4.1	--	--	--
			01497	00103	----------	C.2.2	--	--	--
			01497	00112	----------	C.3.1.2	--	--	--
			01497	00113	----------	C.2.8.3	--	--	--
			01497	00114	----------	C.2.8.2	--	--	--
			01497	00115	----------	C.2.8.2	--	--	--
			01497	00116	----------	C.3.1.2	--	--	--
			01497	00117	----------	C.3.4.4	--	--	--
			01497	00118	----------	C.3.1.2	--	--	--
			01497	00119	----------	C.3.1.2	--	--	--
			01497	00120	----------	C.3.1.2	--	--	--
			01497	00121	----------	C.3.1.2	--	--	--
			01497	00122	----------	C.3.1.2	--	--	--
			01497	00123	----------	C.3.1.2	--	--	--
			01497	00124	----------	C.2.1.3	--	--	--
			01497	00125	----------	C.3.1.2	--	--	--
			01497	00126	----------	C.3.4.3	--	--	--
			01497	00127	----------	C.3.1.2	--	--	--
			01497	00128	----------	C.3.1.2	--	--	--
			01497	00129	----------	C.2.1.2	--	--	--
			01497	00130	----------	C.2.8.3	--	--	--
			01497	00131	----------	C.2.7	--	--	--
			01497	00132	----------	C.2.1.1	--	--	--
			01497	00140	----------	C.2.2	--	--	--
			01497	00146	----------	C.2.8.3	--	--	--
			01497	00147	----------	C.2.5.2	--	--	--
			01497	00148	----------	C.2.2	--	--	--
			01497	00152	----------	C.2.3.1	--	--	--
			01497	00156	----------	C.3.1.2	--	--	--
			01497	00159	----------	C.2.1.1	--	--	--
			01497	00161A	----------	C.2.3.2	--	--	--
			01497	00161B	----------	C.2.1.2	--	--	--
			01497	00162	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01497	00167	----------	C.2.4.1	--	--	--
			01497	00174	----------	C.3.1.2	--	--	--
			01497	00175	----------	C.3.1.2	--	--	--
			01497	00176	----------	C.2.3.3	--	--	--
			01497	00177	----------	C.3.4.3	--	--	--
			01497	00178	----------	C.2.5.2	--	--	--
			01497	00179	----------	C.2.5.1	--	--	--
			01497	00180	----------	C.2.5	--	--	--
			01497	00181	----------	C.3.1.2	--	--	--
			01497	00182	----------	C.2.1.1	--	--	--
			01497	00183	----------	C.2.1.2	--	--	--
			01497	00194	----------	C.2.5.2	--	--	--
			01497	00195	----------	C.2.5.2	--	--	--
			01497	00197	----------	C.2.6	--	--	--
			01497	00199	----------	C.2.6.1	--	--	--
			01497	00200	----------	C.2.8.2	--	--	--
			01497	00201	----------	C.2.1.2	--	--	--
			01497	00202	----------	C.3.4.4	--	--	--
			01497	00203	----------	C.2.5.1	--	--	--
			01497	00204	----------	C.2.4.1	--	--	--
			01497	00205	----------	C.2.8.3	--	--	--
			01497	00206	----------	C.3.4.4	--	--	--
			01497	00207A	----------	C.2.3.2	--	--	--
			01497	00207B	----------	C.2.5.2	--	--	--
			01497	00207C	----------	C.2.1.2	--	--	--
			01497	00207D	----------	C.2.1.2	--	--	--
			01497	00210	----------	C.2.6.3	--	--	--
			01497	00211A	----------	C.2.8.1	--	--	--
			01497	00211B	----------	C.2.4.1	--	--	--
			01497	00212	----------	C.3.1.2	--	--	--
			01497	00213	----------	C.2.3.3	--	--	--
			01497	00214	----------	C.3.4.3	--	--	--
			01497	00215A	----------	C.2.6.2	--	--	--
			01497	00216	----------	C.3.1.2	--	--	--
			01497	00217	----------	C.3.4.4	--	--	--
			01497	00218	----------	C.2.3.3	--	--	--
			01497	00219	----------	C.2.4.1	--	--	--
			01497	00220	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01497	00221	----------	C.2.1.1	--	--	--
			01497	00223	----------	C.2.3.1	--	--	--
			01497	00226	----------	C.2.4.1	--	--	--
			01497	00227	----------	C.2.4.1	--	--	--
			01497	00228	----------	C.2.4.1	--	--	--
			01497	00229	----------	C.2.4.1	--	--	--
			01497	00245	----------	C.3.1.2	--	--	--
			01497	00246	----------	C.3.1.2	--	--	--
			01497	00247	----------	C.3.1.2	--	--	--
			01497	00248	----------	C.3.1.2	--	--	--
			01497	00249	----------	C.3.1.2	--	--	--
			01497	00250	----------	C.2.3.1	--	--	--
			01497	00251	----------	C.2.1.1	--	--	--
			01497	00252	----------	C.2.1.1	--	--	--
			01497	00253	----------	C.2.1.1	--	--	--
			01497	00266	----------	C.2.4.1	--	--	--
			01497	00268	----------	C.2.4.1	--	--	--
			01497	00271	----------	C.2.4.1	--	--	--
			01497	00274	----------	C.2.8.3	--	--	--
			01497	00276	----------	C.2.8.3	--	--	--
			01497	00278	----------	C.2.3.1	--	--	--
			01497	00279	----------	C.2.3.1	--	--	--
			01497	00280	----------	C.2.8.3	--	--	--
			01497	00281	----------	C.2.8.3	--	--	--
			01497	00282	----------	C.2.1.5	C.2.3.1	--	--
			01497	00283	----------	C.2.6.1	--	--	--
			01497	00284	----------	C.2.4.1	--	--	--
			01497	00285	----------	C.2.1.1	--	--	--
			01497	00286	----------	C.2.3.1	--	--	--
			01497	00287	----------	C.2.5.2	--	--	--
			01497	00289	----------	C.2.1.2	--	--	--
			01497	00292	----------	C.2.8.2	--	--	--
			01497	00293	----------	C.3.4.4	--	--	--
			01497	00294	----------	C.2.4.2	--	--	--
			01497	00295	----------	C.3.4.4	--	--	--
			01497	00296	----------	C.2.3.2	--	--	--
			01497	00297	----------	C.2.8.1	--	--	--
			01497	00299	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01497	00300	----------	C.3.1.2	--	--	--
			01497	00302	----------	C.3.4.4	--	--	--
			01497	00303A	----------	C.3.1.2	--	--	--
			01497	00303B	----------	C.2.3.1	--	--	--
			01497	00304	----------	C.2.5.1	--	--	--
			01497	00305	----------	C.2.8.1	--	--	--
			01497	00306	----------	C.2.8.2	--	--	--
			01497	00307	----------	C.3.4.4	--	--	--
			01497	00308	----------	C.3.4.4	--	--	--
			01497	00309	----------	C.3.1.2	--	--	--
			01497	00310	----------	C.3.1.2	--	--	--
			01497	00311	----------	C.3.1.2	--	--	--
			01497	00312	----------	C.2.3.2	--	--	--
			01497	00313	----------	C.2.8.3	--	--	--
			01497	00314	----------	C.2.4.1	--	--	--
			01497	00315	----------	C.2.3.1	--	--	--
			01497	00316	----------	C.3.1.2	--	--	--
			01497	00317A	----------	C.2.6.2	--	--	--
			01497	00317B	----------	C.2.6.2	--	--	--
			01497	00318	----------	C.2.8.3	--	--	--
			01497	00319	----------	C.3.1.2	--	--	--
			01497	00320	----------	C.2.4.1	--	--	--
			01497	00321	----------	C.2.4.1	--	--	--
			01497	00322A	----------	C.2.4.1	--	--	--
			01497	00326	----------	C.2.4.1	--	--	--
			01497	00343	----------	C.3.1.2	--	--	--
			01497	00344	----------	C.3.1.2	--	--	--
			01497	00345	----------	C.3.1.2	--	--	--
			01497	00346A	----------	C.3.4.4	--	--	--
			01497	00346B	----------	C.3.1.2	--	--	--
			01497	00347	----------	C.3.4.3	--	--	--
			01497	00348	----------	C.3.1.2	--	--	--
			01497	00349	----------	C.2.3.3	--	--	--
			01497	00350	----------	C.2.6.2	--	--	--
			01497	00351	----------	C.2.1.1	--	--	--
			01497	00362	----------	C.2.3.2	--	--	--
			01497	00366	----------	C.2.8.3	--	--	--
			01497	00367	----------	C.2.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01497	00369	----------	C.2.2	--	--	--
			01497	00375	----------	C.2.3.1	--	--	--
			01497	00377	----------	C.2.6.1	--	--	--
			01497	00378	----------	C.2.4.1	--	--	--
			01497	00379	----------	C.2.6.1	--	--	--
	Bishop, Warren A.		02357	00001	----------	C.2.7.1	--	--	--
			02357	00002	----------	C.2.2	--	--	--
			02357	00003	----------	C.2.6.1	--	--	--
			02357	00008	----------	C.2.5.1	--	--	--
	Bissonnette, Joe		02281	00001	----------	C.3.4.4	--	--	--
	Black, Gloria		01082	00001	----------	C.2.8.3	--	--	--
			01082	00002	----------	C.3.4.4	--	--	--
	Blackford, Irene		00670	00001	----------	C.3.4.4	--	--	--
	Blum, Dr. Peter		02406	00001	----------	C.2.8.1	--	--	--
	Boggess, Alva A.		00105	00001	----------	C.3.4.4	--	--	--
	Bogle, Julie		02552	00001	----------	C.3.1.2	C.7.4	--	--
			02552	00003	----------	C.2.3.3	--	--	--
			02552	00004	----------	C.2.4.1	--	--	--
			02552	00005	----------	C.3.1.2	--	--	--
	Boldman, Susan		02568	00001	----------	C.3.1.2	--	--	--
			02568	00002	----------	C.2.8.2	--	--	--
	Bonifer, Lorrie		01590	00001	----------	C.2.6	--	--	--
			01590	00002B	----------	C.3.1.2	--	--	--
			01590	00003	----------	C.3.1.2	--	--	--
			01590	00004	----------	C.2.1.1	--	--	--
	Booth, Patsy A.		01116	00001	----------	C.3.1.2	C.5.11	--	--
			01116	00003	----------	C.2.3.1	--	--	--
			01116	00004	----------	C.2.4.1	--	--	--
			01116	00005	----------	C.3.4.4	--	--	--
	Bosch, W. Bruce	Clark County PUD	01595	00001	----------	C.3.4.4	--	--	--
	Braudenberg, M.		01207	00001	----------	C.3.4.4	--	--	--
	Breithaupt, Steve		02539	00001	----------	C.2.1.3	--	--	--
			02539	00002	----------	C.3.1.2	--	--	--
			02539	00003	----------	C.2.3.1	--	--	--
			02539	00006	----------	C.2.4.1	--	--	--
			02539	00007	----------	C.2.4.1	--	--	--
			02539	00008	----------	C.2.4.1	--	--	--
			02539	00009	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02539	00010	----------	C.2.4.1	--	--	--
			02539	00011	----------	C.2.4.1	--	--	--
			02539	00012	----------	C.2.1.1	--	--	--
	Bringloe, Anne		02334	00001	----------	C.3.1.1	--	--	--
			02334	00002	----------	C.3.1.2	--	--	--
			02334	00003	----------	C.3.1.2	--	--	--
			02334	00004	----------	C.3.1.1	--	--	--
			02334	00005	----------	C.2.4.1	--	--	--
			02334	00006	----------	C.3.1.2	--	--	--
			02334	00007	----------	C.2.3.1	--	--	--
			02334	00008	----------	C.2.1.1	--	--	--
			02334	00009	----------	C.2.2.1	--	--	--
			02334	00010	----------	C.2.1.1	--	--	--
	Bringloe, Anne H.	The Sierra Club	02365	00001	----------	C.3.1.1	--	--	--
			02365	00002	----------	C.3.1.2	--	--	--
			02365	00003	----------	C.3.1.2	--	--	--
			02365	00004	----------	C.3.1.1	--	--	--
			02365	00005	----------	C.2.4.1	--	--	--
			02365	00006	----------	C.3.1.2	--	--	--
			02365	00007	----------	C.2.3.1	--	--	--
			02365	00008	----------	C.2.1.1	--	--	--
			02365	00009	----------	C.2.1.2	--	--	--
			02365	00010	----------	C.2.1.1	--	--	--
	Brody, Kathy		01226	00001	----------	C.3.1.2	--	--	--
			01226	00002	----------	C.2.8.2	--	--	--
	Broscious, Charles		02569	00001	----------	C.2.1.1	--	--	--
	Brown, Mr. & Mrs. A. N.		00295	00001	----------	C.2.1.1	--	--	--
			00295	00003	----------	C.3.4.4	--	--	--
	Brown, Barbara		01079	00001	----------	C.2.5.2	--	--	--
			01079	00002	----------	C.3.1.2	--	--	--
	Brown, Chris	Grays Harbor Democ. Central Com.	01502	00001	----------	C.3.4.4	--	--	--
			01502	00002	----------	C.3.1.2	--	--	--
	Brownlie, Idell and Wallace		00530	00001	DC	C.7.2	--	--	--
			00530	00002	DC	C.7.2	--	--	--
	Brucato, Albert		00372	00002	----------	C.2.8.2	--	--	--
	Brucato, Ingrid		00373	00002	----------	C.2.8.2	--	--	--
	Budd, William W.	WSU, Environmental Science	01521	00001	----------	C.2.7	--	--	--
			01521	00002	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01521	00004	----------	C.2.4.1	--	--	--
			01521	00005	----------	C.2.7	--	--	--
	Buehler, Nettie B.		00496	00002	----------	C.2.4.2	--	--	--
	Buller, Eileen		02317	00001	----------	C.3.1.2	--	--	--
			02317	00002	----------	C.3.1.2	--	--	--
	Buller, Patrick		02378	00001	----------	C.2.8.2	--	--	--
	Buller, R. Eileen	Hanford Oversight Committee	02627	00001	----------	C.3.1.2	--	--	--
			02627	00002	----------	C.3.1.2	--	--	--
	Bullington, Darryl		00265	00001	----------	C.2.1.1	--	--	--
			00265	00002A	----------	C.2.4.1	--	--	--
			00265	00002B	----------	C.2.5.7	--	--	--
			00265	00002C	----------	C.2.4.1	--	--	--
			00265	00003	----------	C.2.8.3	--	--	--
			00265	00004	----------	C.2.8.3	--	--	--
			00265	00007	----------	C.2.3.2	--	--	--
			00265	00011	----------	C.2.6.1	--	--	--
			00265	00013	----------	C.2.3.2	--	--	--
			00265	00014	----------	C.2.8.2	--	--	--
			00265	00015	----------	C.3.1.2	--	--	--
	Bullock, David	The Society of the Holy Earth	02374	00001	----------	C.3.4.4	--	--	--
	Burnet, Patricia		01111	00001	----------	C.3.1.2	--	--	--
			01111	00002A	----------	C.3.4.4	--	--	--
			01111	00002B	----------	C.3.1.2	--	--	--
			01111	00002C	----------	C.2.3.3	--	--	--
			01111	00002D	----------	C.3.1.2	--	--	--
			01111	00003	----------	C.3.1.2	--	--	--
			01111	00004	----------	C.3.1.2	--	--	--
			01111	00005A	----------	C.3.2	--	--	--
			01111	00005B	----------	C.2.1.2	--	--	--
			01111	00006	----------	C.2.8.1	--	--	--
	Burnum, Steven		01113	00001	----------	C.3.4.4	--	--	--
	Burt, Peggy		02535	00001	----------	C.2.4.1	--	--	--
	Bush, Shirley J.		00230	00001	----------	C.3.1.2	--	--	--
	Buske, Norman	Search Technical Services	00507	00001	----------	C.3.2	C.5.11	--	--
	Caldwell, Larry		01247	00001	----------	C.2.1.1	--	--	--
			01247	00002	----------	C.3.1.2	--	--	--
			01247	00004	----------	C.2.3.1	--	--	--
			01247	00006	----------	C.2.3.1	C.9	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01247	00008	----------	C.2.7	C.3.1.2	--	--
			01247	00011	----------	C.2.4.1	--	--	--
			01247	00011A	----------	C.2.4.1	--	--	--
			01247	00011B	----------	C.7.3	C.2.4.1	--	--
			01247	00011C	----------	C.7.3	C.2.4.1	--	--
			01247	00013	----------	C.2.6.1	--	--	--
			01247	00014	----------	C.2.3	--	--	--
			01247	00018	----------	C.4.2.2	C.2.8.3	--	--
	Campbell, Michael		02555	00003	----------	C.3.4.4	--	--	--
			02555	00004	----------	C.2.4.1	--	--	--
			02555	00005	----------	C.2.4.1	--	--	--
			02555	00006	----------	C.2.4.1	--	--	--
			02555	00007	----------	C.2.4.1	--	--	--
	Carson, R. J.		00497	00001	----------	C.2.1.2	--	--	--
	Carter, Dorothy E.		00646	00001	----------	C.3.4.4	--	--	--
			00646	00002	----------	C.2.8.3	--	--	--
			00646	00003	----------	C.2.8.1	--	--	--
	Cartmell, John		02273	00002	----------	C.2.8.2	--	--	--
	Cartmell, John		01508	00002	----------	C.2.8.2	--	--	--
	Cassuto, Sherri		02385	00002	----------	C.2.1.1	--	--	--
	Chapin, Mildred C.		00394	00004A	----------	C.3.1.2	--	--	--
	Cheney, Elinor V.		00383	00001	----------	C.2.8.1	--	--	--
	Cheng, Peter		02400	00013	----------	C.2.7	--	--	--
			02400	00015	----------	C.2.3.1	--	--	--
			02400	00017	----------	C.2.3.1	--	--	--
			02400	00018	----------	C.3.1.2	--	--	--
			02400	00019	----------	C.3.1.2	--	--	--
	Chicha, George S.		02521	00001	----------	C.3.1.2	--	--	--
	Chicha, George S.		02585	00001	----------	C.3.1.2	--	--	--
	Christensen, Liz		02549	00001	----------	C.3.1.2	--	--	--
			02549	00002	----------	C.2.3.1	--	--	--
			02549	00004	----------	C.2.3.2	--	--	--
			02549	00005	----------	C.2.4.1	--	--	--
			02549	00006	----------	C.2.4.1	--	--	--
			02549	00007	----------	C.2.4.1	--	--	--
			02549	00008	----------	C.2.1.2	--	--	--
			02549	00008A	----------	C.2.1	--	--	--
			02549	00008B	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Christensen, Liz	Action League, Hanford Education	02599	00001	----------	C.2.3.3	--	--	--
			02599	00002	----------	C.2.3.1	--	--	--
			02599	00003	----------	C.2.4.1	--	--	--
	Christofferson, J.R.		00659	00001	----------	C.3.4.4	--	--	--
			00659	00003	----------	C.3.1.2	--	--	--
			00659	00005	----------	C.2.8.2	--	--	--
			00659	00006	----------	C.2.1.1	--	--	--
			00659	00007	----------	C.2.1.1	--	--	--
	Clausen, Phyllis		01134	00001	----------	C.2.1.1	--	--	--
			01134	00002	----------	C.2.1.1	--	--	--
			01134	00003	----------	C.3.1.2	--	--	--
			01134	00005B	----------	C.2.3.3	--	--	--
			01134	00006	----------	C.2.4.1	--	--	--
			01134	00008	----------	C.2.1.1	--	--	--
			01134	00009	----------	C.2.4.2	--	--	--
			01134	00010	----------	C.2.1.2	--	--	--
	Clausen, Phyllis		02501	00001	----------	C.2.3.3	--	--	--
			02501	00002	----------	C.3.4.3	--	--	--
			02501	00003	----------	C.3.1.2	--	--	--
			02501	00004	----------	C.2.4.1	--	--	--
			02501	00006	----------	C.2.4.1	--	--	--
			02501	00007	----------	C.2.5.1	--	--	--
			02501	00008	----------	C.2.1.2	--	--	--
	Cogle, S. J.		01538	00001	----------	C.3.1.2	--	--	--
	Cole, Byron & Family		00643	00001	----------	C.3.4.4	--	--	--
			00643	00003	----------	C.3.1.2	--	--	--
			00643	00004	----------	C.2.3.3	--	--	--
	Colony, Stephanie		01103	00001	----------	C.3.4.4	--	--	--
			01103	00002	----------	C.2.8.2	--	--	--
	Connel, Bonnie		02295	00001	----------	C.3.1.2	--	--	--
	Cordes, Deanne		01112	00001	----------	C.3.1.2	--	--	--
			01112	00002	----------	C.2.4.1	--	--	--
			01112	00003	----------	C.2.8	--	--	--
	Corey, Barbara		02372	00001	----------	C.3.4.4	--	--	--
	Corley-Wheeler, Nancy		01549	00001	----------	C.3.4.4	--	--	--
	Corvin, Scott A.		00274	00002	----------	C.3.4.4	--	--	--
	Cory, Barbara		02345	00001	----------	C.3.4.4	--	--	--
	Cosby, Judith		01245	00001	----------	C.2.3.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01245	00003	----------	C.3.1.2	--	--	--
			01245	00004	----------	C.2.8.1	--	--	--
			01245	00005A	----------	C.3.4.4	--	--	--
			01245	00005B	----------	C.2.4.1	--	--	--
			01245	00006	----------	C.3.4.4	--	--	--
			01245	00007	----------	C.3.4.4	--	--	--
			01245	00008	----------	C.2.4.1	--	--	--
			01245	00009	----------	C.3.4.4	--	--	--
			01245	00010	----------	C.3.4.4	--	--	--
			01245	00015	----------	C.2.8.1	--	--	--
			01245	00016	----------	C.3.1.2	--	--	--
			01245	00019	----------	C.2.4.1	--	--	--
			01245	00020	----------	C.2.8.1	--	--	--
			01245	00021	----------	C.3.4.4	--	--	--
			01245	00022	----------	C.2.8.1	--	--	--
			01245	00023	----------	C.2.8.1	--	--	--
			01245	00024A	----------	C.2.6	--	--	--
			01245	00024C	----------	C.3.1.2	--	--	--
	Courtright, Kelly D.		00617	00003A	----------	C.3.2	--	--	--
			00617	00003B	----------	C.2.3.2	--	--	--
			00617	00003C	----------	C.2.3.2	--	--	--
	Covey, Pam		00186	00001A	----------	C.3.1.2	--	--	--
			00186	00002	----------	C.2.8.2	--	--	--
	Cowan, Thomas R.	B.O.C. San Juan County	02621	00001	----------	C.2.1.1	--	--	--
			02621	00004	----------	C.2.4.1	--	--	--
	Cowan, Thomas R.	Bd of Commissioners, San Juan Co.	02117	00001	----------	C.2.1.1	--	--	--
	Cram, Bob and Martha		00453	00001	----------	C.3.4.4	--	--	--
			00453	00002	----------	C.2.8.2	--	--	--
	Cranage, Lillian		01594	00001	----------	C.3.4.4	--	--	--
	Crane, David		01150	00001	----------	C.3.1.2	--	--	--
			01150	00003	----------	C.3.4.4	--	--	--
			01150	00004	----------	C.2.1.2	--	--	--
	Crow, Rob		02321	00001	----------	C.2.4.1	--	--	--
			02321	00002	----------	C.2.4.1	--	--	--
			02321	00003	----------	C.2.4.1	C.8.2	C.5.3	--
			02321	00004	----------	C.3.4.2.2	--	--	--
			02321	00005	----------	C.2.4.1	--	--	--
			02321	00007	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Crowley, Carole		00431	00001	----------	C.3.4.4	--	--	--
	Cummings, Coreen		02260	00001	----------	C.3.1.2	--	--	--
			02260	00002	----------	C.2.3.3	--	--	--
			02260	00003	DC	C.7.2.4	--	--	--
			02260	00004	DC	C.7.2.4	C.7.4.1	--	--
			02260	00005	----------	C.2.2.2	--	--	--
	Cunningham, Kevin		02556	00001	----------	C.2.4.1	--	--	--
			02556	00002	----------	C.2.4.1	--	--	--
			02556	00003	----------	C.2.4.1	--	--	--
	Cunningham, Kevin		02601	00001	----------	C.2.4.1	--	--	--
			02601	00002	----------	C.2.4.1	--	--	--
			02601	00003	----------	C.2.4.1	--	--	--
	Dalton, Patrick		02527	00008	----------	C.2.4.1	--	--	--
			02527	00009	----------	C.2.4.1	--	--	--
			02527	00010	----------	C.2.4.1	--	--	--
			02527	00011	----------	C.2.4.1	--	--	--
			02527	00012	----------	C.2.4.1	--	--	--
			02527	00013	----------	C.2.4.1	--	--	--
			02527	00014	----------	C.2.4.1	--	--	--
			02527	00015	----------	C.2.4.1	--	--	--
			02527	00016	----------	C.2.4.1	--	--	--
			02527	00017	----------	C.2.4.1	--	--	--
			02527	00018	----------	C.2.4.1	--	--	--
			02527	00019	----------	C.2.4.1	--	--	--
			02527	00020	----------	C.2.4.1	--	--	--
			02527	00021	----------	C.2.4.1	--	--	--
			02527	00022	----------	C.2.5.1	--	--	--
			02527	00023	----------	C.3.4.3	--	--	--
	Dalton, Pat	City of Spokane	02590	00003	----------	C.2.4.1	--	--	--
			02590	00004	----------	C.2.4.1	--	--	--
			02590	00005	----------	C.2.3.3	--	--	--
			02590	00006	----------	C.2.8.2	--	--	--
			02590	00007	----------	C.2.3.3	--	--	--
			02590	00008	----------	C.3.4.3	--	--	--
			02590	00009	----------	C.3.1.2	--	--	--
			02590	00016	----------	C.2.4.1	--	--	--
			02590	00017	----------	C.2.4.1	--	--	--
			02590	00018	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02590	00019	----------	C.2.4.1	--	--	--
			02590	00020	----------	C.2.4.1	--	--	--
			02590	00021	----------	C.2.4.1	--	--	--
			02590	00022	----------	C.2.4.1	--	--	--
			02590	00023	----------	C.2.4.1	--	--	--
			02590	00024	----------	C.2.4.1	--	--	--
			02590	00025	----------	C.2.4.1	--	--	--
			02590	00026	----------	C.2.4.1	--	--	--
	Darvill, Dr. F. T.		00322	00001	DC	C.7.2	--	--	--
			00322	00002	----------	C.3.4.4	--	--	--
	Dautel, William A.		00494	00001	----------	C.2.7	--	--	--
			00494	00004	----------	C.2.8.2	--	--	--
			00494	00005	----------	C.2.5.2	--	--	--
	Davis, Dorlyn		00673	00002	----------	C.3.4.4	--	--	--
	Davis, James M.		02296	00001	----------	C.3.4.4	--	--	--
	Davis, McClelland		02379	00003	----------	C.2.3.1	--	--	--
	DeLaCruz, Joe B.	Quinault Indian Nation	01231	00001	----------	C.2.7	--	--	--
			01231	00007	----------	C.2.1.2	--	--	--
	DeSilva, Judith		02388	00002	----------	C.3.1.2	--	--	--
	DeSilva, Peter		02394	00001	----------	C.3.4.4	--	--	--
	Delaney, Helen		02523	00001	----------	C.3.4.4	--	--	--
			02523	00002	----------	C.2.3.1	--	--	--
			02523	00003	----------	C.3.1.2	--	--	--
			02523	00004	----------	C.3.4.2.2	--	--	--
			02523	00006	----------	C.2.4.1	--	--	--
			02523	00009	----------	C.3.1.2	--	--	--
	Delaney, Helen		02586	00001	----------	C.3.4.4	--	--	--
			02586	00002	----------	C.2.3.1	--	--	--
			02586	00003	----------	C.3.4.4	--	--	--
			02586	00004	----------	C.3.4.2.2	--	--	--
			02586	00006	----------	C.2.4.1	--	--	--
			02586	00009	----------	C.3.1.2	--	--	--
	Denkeigh, Mr. and Mrs. R.		00407	00001	----------	C.3.1.2	--	--	--
	Dilger, Bob		02267	00001	----------	C.2.4.1	--	--	--
			02267	00002	----------	C.2.4.1	--	--	--
			02267	00003	----------	C.2.4.1	--	--	--
	Dilger, Bob		02315	00001	----------	C.2.4.1	--	--	--
			02315	00002	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02315	00003	----------	C.2.4.1	--	--	--
			02315	00005	----------	C.2.4.1	--	--	--
			02315	00006	----------	C.2.4.1	--	--	--
			02315	00007	----------	C.2.4.1	--	--	--
			02315	00008	----------	C.2.1.2	--	--	--
	Dilger, Bob		02629	00002	----------	C.2.4.1	--	--	--
			02629	00003	----------	C.2.4.1	--	--	--
			02629	00005	----------	C.2.4.1	--	--	--
			02629	00006	----------	C.2.4.1	--	--	--
			02629	00007	----------	C.2.4.1	--	--	--
			02629	00008	----------	C.2.1.5	--	--	--
	Dodd, Celeste		02352	00001	----------	C.3.1.2	--	--	--
	Donovan, Mr. Virgil		02291	00002	----------	C.2.5.2	--	--	--
	Donnally, Lisa		02348	00001	----------	C.3.4.4	--	--	--
	Douglas, Hector		02338	00001	----------	C.3.4.4	--	--	--
			02338	00002	----------	C.2.2	--	--	--
			02338	00004	----------	C.2.1.1	--	--	--
			02338	00006	----------	C.2.4.3	--	--	--
			02338	00007	----------	C.2.3.1	--	--	--
			02338	00008	----------	C.3.4.3	--	--	--
	Douglas, Hector		02368	00001	----------	C.3.4.4	--	--	--
			02368	00002	----------	C.2.2	--	--	--
			02368	00004	----------	C.2.1.1	--	--	--
			02368	00006	----------	C.2.4.3	--	--	--
			02368	00007	----------	C.2.3.1	--	--	--
			02368	00008	----------	C.3.4.3	--	--	--
	Downing, L. E.	Natl Assoc Retired Vet.	02571	00002	----------	C.2.1.1	--	--	--
			02571	00003	----------	C.2.4.1	--	--	--
			02571	00004	----------	C.3.4.4	--	--	--
	Drakovich, Elizabeth		01587	00001	----------	C.3.1.1	--	--	--
			01587	00009	----------	C.2.3.1	--	--	--
	Draskovich, Libby		00466	00009	----------	C.2.4.1	--	--	--
	Drew, Alice C.		00273	00002	----------	C.3.4.4	--	--	--
	Eagle, WA State		00214	00001	----------	C.3.4.4	--	--	--
	Eaton, Clark	Int'l Trollers Coalition	02087	00001	----------	C.3.1.2	C.7.2	--	--
			02087	00002	----------	C.3.1.2	C.7.2	--	--
	Ebert, L. C.		00240	00001	----------	C.3.4.4	--	--	--
			00240	00002	----------	C.2.8.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			00240	00003	----------	C.2.5.2	--	--	--
			00240	00004	----------	C.3.4.4	--	--	--
	Ebert, L.C.		00663	00001	----------	C.3.4.4	--	--	--
			00663	00002	----------	C.2.8.1	--	--	--
			00663	00003	----------	C.2.8.1	--	--	--
			00663	00004	----------	C.2.5.2	--	--	--
			00663	00005	----------	C.2.5.2	--	--	--
			00663	00006	----------	C.2.3.3	--	--	--
			00663	00007	----------	C.2.3.2	--	--	--
	Ebert, L.C.		01507	00001	----------	C.2.5.2	--	--	--
			01507	00002	----------	C.2.5.2	--	--	--
			01507	00003	----------	C.3.4.4	--	--	--
	Edwards, Craig		00402	00001	----------	C.3.4.4	--	--	--
			00402	00002	----------	C.2.2	--	--	--
			00402	00006	----------	C.7.3	--	--	--
	Edwards, Bobby		02386	00001	----------	C.2.1.1	--	--	--
	Eisenman, Marilyn		00110	00001	----------	C.3.4.4	--	--	--
	Eldridge, Les	Thurston County Commissioners	01501	00002	----------	C.3.1.2	--	--	--
			01501	00003	----------	C.3.1.2	C.5.8	--	--
			01501	00005	----------	C.2.4.1	C.7.3	--	--
			01501	00006	----------	C.3.1.2	--	--	--
			01501	00007	----------	C.3.1.2	--	--	--
	Eldridge, Les		02622	00002	----------	C.3.1.2	C.4.4	--	--
			02622	00003	----------	C.3.1.2	C.5.8	--	--
			02622	00005	----------	C.2.4.1	C.7.3	--	--
			02622	00006	----------	C.3.4.4	--	--	--
			02622	00007	----------	C.3.4.4	--	--	--
			02622	00008	----------	C.3.4.4	--	--	--
	Ellis, Dr. Frederick E.		02313	00001	----------	C.2.1.1	--	--	--
			02313	00003	----------	C.2.1.1	--	--	--
			02313	00004	----------	C.2.8.2	--	--	--
			02313	00005	----------	C.2.3.1	--	--	--
	Ellison, Mike		01306	00001	----------	C.2.3.3	--	--	--
			01306	00002	----------	C.2.3	--	--	--
			01306	00003	----------	C.3.1.2	--	--	--
	Englehart, Cindy		02395	00003	----------	C.2.6.1	--	--	--
	Evans, Stephen		00291	00001	DC	C.7.2	--	--	--
	Fiddler, Mary		00158	00002	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			00158	00003	----------	C.2.8.1	--	--	--
	Fields & Aylward, Mary & John	University of Washington	01132	00001	----------	C.3.1.2	--	--	--
			01132	00002	----------	C.3.4.2.2	--	--	--
	Filby, Royston H.	WSU, Nuclear Waste Board	01528	00009	----------	C.5.11	C.5.11	--	--
	Foley, Chuck		02384	00001	----------	C.2.4.1	--	--	--
			02384	00002	----------	C.2.4.1	--	--	--
			02384	00004	----------	C.2.1.1	--	--	--
	Ford, Lillian		02418	00002	----------	C.2.4.1	--	--	--
			02418	00003	----------	C.3.4.4	--	--	--
			02418	00004	----------	C.3.4.4	--	--	--
			02418	00005	----------	C.3.4.4	--	--	--
			02418	00006	----------	C.3.4.4	--	--	--
			02418	00008	----------	C.3.4.4	--	--	--
	Ford. Lillian		02433	00003	----------	C.2.4.1	--	--	--
	Foster, Dianne & Vincent		02084	00001	----------	C.3.1.2	--	--	--
			02084	00002	----------	C.3.1.2	--	--	--
			02084	00003	----------	C.3.4.4	--	--	--
	Fowler, Hugh A.	WA State, Dept. Emergency Mngt.	01519	00001	----------	C.2.4.1	--	--	--
			01519	00005	----------	C.2.4.1	--	--	--
	Foye, Coleen		00098	00002	----------	C.3.1.2	--	--	--
			00098	00004	----------	C.2.3.3	--	--	--
	Franz, Eldon H.	WSU, Environmental Science	01522	00001	----------	C.3.4.3	--	--	--
	Frazier, C. Cheryl		01136	00001	----------	C.3.4.4	--	--	--
	Fresk, Gary		02335	00001	----------	C.2.7	--	--	--
			02335	00002	----------	C.2.1.1	--	--	--
			02335	00003	----------	C.2.1.1	--	--	--
			02335	00004	----------	C.2.4.1	--	--	--
			02335	00005	----------	C.2.1.1	--	--	--
	Fresk, Gary	Washington Waste Site Study Grp.	02366	00001	----------	C.2.1.1	--	--	--
			02366	00002	----------	C.2.1.1	--	--	--
			02366	00003	----------	C.2.1.1	--	--	--
			02366	00004	----------	C.2.4.1	--	--	--
			02366	00005	----------	C.2.1.1	--	--	--
	Friedman, Al		02333	00002	----------	C.3.3	--	--	--
			02333	00005	----------	C.3.4.3	--	--	--
			02333	00006	----------	C.3.1.2	--	--	--
			02333	00007	----------	C.3.1.2	--	--	--
			02333	00008	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02333	00009	----------	C.3.1.2	--	--	--
			02333	00010	----------	C.3.4.4	--	--	--
			02333	00011	----------	C.3.4.4	--	--	--
	Friedman, Albert		02364	00002	----------	C.3.3	--	--	--
			02364	00006	----------	C.3.3	--	--	--
			02364	00007	----------	C.3.1.2	--	--	--
			02364	00008	----------	C.3.1.2	--	--	--
			02364	00009	----------	C.2.4.3	--	--	--
			02364	00010	----------	C.3.1.2	--	--	--
			02364	00011	----------	C.3.4.4	--	--	--
	Fry, Elaine		02531	00002	----------	C.3.1.2	--	--	--
			02531	00003	----------	C.3.1.2	--	--	--
			02531	00004	----------	C.2.3.1	--	--	--
	Fuller, Mayor Walline	City of Stevenson	02080	00001	----------	C.3.4.4	--	--	--
			02080	00003	----------	C.2.4.1	--	--	--
			02080	00010	----------	C.2.1.1	--	--	--
			02080	00011	----------	C.2.6.1	--	--	--
			02080	00012	----------	C.3.1.1	--	--	--
			02080	00013	----------	C.3.4.3	--	--	--
			02080	00014	----------	C.3.4.4	--	--	--
	Fyfe, Danne		00176	00001	----------	C.3.1.2	--	--	--
			00176	00002	----------	C.3.1.2	--	--	--
			00176	00005	----------	C.3.1.2	--	--	--
			00176	00006	----------	C.2.4.1	--	--	--
			00176	00007B	----------	C.3.1.2	--	--	--
			00176	00008	----------	C.2.8.3	--	--	--
	Garber, Loren		02336	00002	----------	C.2.1.1	--	--	--
			02336	00012	----------	C.2.2	--	--	--
			02336	00013	----------	C.2.6	--	--	--
			02336	00015	----------	C.3.1.2	--	--	--
			02336	00016	----------	C.3.4.3	--	--	--
			02336	00017	----------	C.2.4.3	--	--	--
			02336	00018	----------	C.2.3.1	--	--	--
	Garber, Loren	WASHPIRG	02367	00002	----------	C.2.1.1	--	--	--
			02367	00012	----------	C.2.7	--	--	--
			02367	00015	----------	C.3.1.2	--	--	--
			02367	00016	----------	C.3.4.3	--	--	--
			02367	00017	----------	C.2.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02367	00018	----------	C.2.3.1	--	--	--
	Gardner, Barbara A.		01169	00001	----------	C.3.4.4	--	--	--
			01169	00003	----------	C.3.1.2	--	--	--
			01169	00004	----------	C.2.3	--	--	--
			01169	00006	----------	C.2.3.2	--	--	--
	Gardner, Barbara A.	Nuclear Waste Board	01495	00037	----------	C.2.4.1	--	--	--
			01495	00044	----------	C.2.4.1	--	--	--
			01495	00116	----------	C.3.4.3	--	--	--
			01495	00117	----------	C.3.4.3	--	--	--
			01495	00118	----------	C.3.4.3	--	--	--
			01495	00119	----------	C.3.4.3	--	--	--
			01495	00120	----------	C.3.4.3	--	--	--
	Geary, John		01339	00004	----------	C.3.4.4	--	--	--
			01339	00005	----------	C.2.4.1	--	--	--
	Gibbons, Richard P.		00533	00002	----------	C.2.8.2	--	--	--
			00533	00006	----------	C.2.8.2	--	--	--
	Gibbs, Christine		01139	00001	----------	C.3.1.2	C.5.7	--	--
	Giddings, Roxie		02351	00001	----------	C.2.8.1	--	--	--
			02351	00002	----------	C.2.5.1	--	--	--
	Gifford,Jr., Frank Q.		00210	00001	----------	C.3.4.4	--	--	--
	Gilbert, Karen		02514	00001	----------	C.2.4.1	--	--	--
			02514	00002	----------	C.3.4.4	--	--	--
			02514	00003	----------	C.3.1.2	--	--	--
			02514	00007	----------	C.2.3.1	--	--	--
	Gilbert, Karen		02577	00001	----------	C.2.4.1	--	--	--
			02577	00002	----------	C.3.4.4	--	--	--
			02577	00003	----------	C.3.1.2	--	--	--
			02577	00007	----------	C.2.3.1	--	--	--
	Gill, Ty		00380	00001	----------	C.3.4.4	--	--	--
			00380	00002	----------	C.2.8.1	--	--	--
	Girvin, Dr. George		02560	00001	----------	C.2.4.1	--	--	--
			02560	00002	----------	C.2.4.1	--	--	--
	Gordon, Thomas		01148	00004	----------	C.2.4.1	--	--	--
			01148	00005	----------	C.2.1.2	--	--	--
			01148	00006	----------	C.3.4.4	--	--	--
			01148	00010	----------	C.2.3.1	--	--	--
			01148	00013	----------	C.3.1.2	--	--	--
	Goulden, Jeff,Margie & Molly	Cascade Photo Art	00123	00001	DC	C.7.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			00123	00002	DC	C.7.1.1	--	--	--
			00123	00003	DC	C.7.2	--	--	--
	Graf, David		02279	00015	----------	C.2.7	--	--	--
	Graham, Phyllis		00309	00002	----------	C.2.8.2	--	--	--
	Gray, Andrew		02404	00004	----------	C.3.3	--	--	--
	Grissom, Wilbur		00437	00002	----------	C.2.8.2	--	--	--
	Grissom, Wilbur		01094	00002	----------	C.2.8.2	--	--	--
	Grof, David		02305	00016	----------	C.2.7	--	--	--
	Groves, David		02373	00001	----------	C.3.4.4	--	--	--
			02373	00002	----------	C.2.1.4	--	--	--
			02373	00003	----------	C.2.8.1	--	--	--
			02373	00004	----------	C.2.6.1	--	--	--
	Guilford, Rhonda	Petition	00131	00001	----------	C.2.8.1	--	--	--
			00131	00003	----------	C.2.6.3	--	--	--
	Haaga, Caroline		02409	00001	----------	C.2.6.2	--	--	--
			02409	00002	----------	C.2.1.1	--	--	--
	Hagen, Maurie		02543	00002	----------	C.2.4.1	--	--	--
	Hagman, Shirley D.		00340	00001	----------	C.3.4.4	--	--	--
			00340	00002	----------	C.2.1.1	--	--	--
			00340	00003A	----------	C.3.1.2	--	--	--
			00340	00003B	----------	C.2.3.3	C.3.4.4	--	--
			00340	00003C	----------	C.3.1.2	--	--	--
	Hale, Rick A.		00286	00001	----------	C.2.4.1	--	--	--
			00286	00002	----------	C.2.2.2	--	--	--
	Hampel, Laurel		00211	00001	----------	C.3.4.4	--	--	--
	Hanners, Albert J.		00427	00001	----------	C.3.4.1	--	--	--
			00427	00008	----------	C.2.7	--	--	--
	Hanners, Al		02328	00001	----------	C.3.4.3	--	--	--
			02328	00002	----------	C.3.1.2	--	--	--
			02328	00003	----------	C.2.3.1	--	--	--
			02328	00004	----------	C.3.4.4	--	--	--
	Hanners, Albert J.		02624	00001	----------	C.3.1.2	--	--	--
			02624	00002	----------	C.3.1.2	--	--	--
			02624	00003	----------	C.2.3.1	--	--	--
			02624	00004	----------	C.3.1.2	--	--	--
	Hansen, Phyllis L		01146	00001	----------	C.2.1.1	--	--	--
			01146	00003	----------	C.2.8.3	--	--	--
			01146	00005	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Hanski, Raimu K.		01090	00001	----------	C.3.4.4	--	--	--
			01090	00002	----------	C.2.3.1	--	--	--
			01090	00003	----------	C.3.1.2	--	--	--
			01090	00007	----------	C.3.1.2	--	--	--
	Hanski, Kathryne L		01092	00001	----------	C.3.4.4	--	--	--
			01092	00002	----------	C.2.3.1	--	--	--
			01092	00003	----------	C.3.1.2	--	--	--
			01092	00007	----------	C.3.1.2	--	--	--
	Hanson, Robert		02563	00003	----------	C.2.4.1	--	--	--
			02563	00004	----------	C.2.4.1	--	--	--
			02563	00005B	----------	C.2.3.1	--	--	--
	Hanson, Marcella J.		02564	00001	----------	C.2.1.1	--	--	--
	Harb, Easa		01197	00001	----------	C.2.3.3	--	--	--
			01197	00002	----------	C.2.3	--	--	--
			01197	00003	----------	C.2.3	--	--	--
			01197	00007	----------	C.3.4.4	--	--	--
	Hattrup, Susan		01288	00001	----------	C.3.4.4	--	--	--
	Headley, Joe R.	Petition	00193	00001	----------	C.3.4.4	--	--	--
	Hedge, Allen		02550	00011	----------	C.3.1.2	--	--	--
			02550	00012	----------	C.3.4.3	--	--	--
			02550	00013	----------	C.3.4.3	--	--	--
			02550	00014	----------	C.3.4.3	--	--	--
			02550	00015	----------	C.2.1.1	--	--	--
			02550	00016	----------	C.2.7	--	--	--
	Hedge, Alan		02600	00007	----------	C.2.1.1	--	--	--
			02600	00008	----------	C.2.7	--	--	--
	Heger, Marilyn		01199	00001	----------	C.2.3.3	--	--	--
			01199	00002	----------	C.2.3	--	--	--
			01199	00003	----------	C.2.3	--	--	--
	Heilgern, Anne		01115	00001A	----------	C.3.4.4	--	--	--
			01115	00001B	----------	C.2.8.1	--	--	--
	Hellman, Glen		02320	00002	----------	C.2.1.1	--	--	--
			02320	00003	----------	C.3.1.2	--	--	--
			02320	00004	----------	C.3.1.2	--	--	--
			02320	00005	----------	C.2.3.1	--	--	--
			02320	00006	----------	C.2.3.3	--	--	--
	Helstien, Beth J.		02419	00001	----------	C.2.4.1	--	--	--
			02419	00003	----------	C.2.3.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02419	00004	----------	C.2.8.3	--	--	--
	Hemphill, Jeanne T.		01129	00001	----------	C.3.1.2	--	--	--
			01129	00002	DC	C.7.2.4	--	--	--
			01129	00003	DC	C.7.2.6	--	--	--
	Henry, David		02513	00001	----------	C.3.1.2	--	--	--
			02513	00002	----------	C.2.1.1	--	--	--
			02513	00003	----------	C.2.4.1	--	--	--
			02513	00004	----------	C.2.4.1	--	--	--
			02513	00005	----------	C.2.6.1	--	--	--
			02513	00006	----------	C.2.4.1	--	--	--
			02513	00007	----------	C.2.4.1	--	--	--
			02513	00008	----------	C.2.4.1	--	--	--
	Herman, Jon		01292	00001	----------	C.3.4.4	--	--	--
			01292	00005	----------	C.3.4.4	--	--	--
	Hess, Dr. George		02343	00001	----------	C.3.4.4	--	--	--
			02343	00002	----------	C.3.4.1	--	--	--
	Hess, Dr. George H.		02371	00001	----------	C.3.4.4	--	--	--
			02371	00002	----------	C.3.4.1	--	--	--
	Hinnen, Christine L.		00647	00001	----------	C.3.4.4	--	--	--
			00647	00003	----------	C.2.4.1	--	--	--
	Hinnen, Dr. Michael L.	Spokane Cardiology	00649	00001	----------	C.3.4.4	--	--	--
			00649	00004	----------	C.2.4.1	--	--	--
			00649	00005	----------	C.2.5.2	--	--	--
			00649	00006	----------	C.2.8.1	--	--	--
	Hinthorne, Royal A.		01325	00001	----------	C.2.1.1	--	--	--
			01325	00002	----------	C.3.1.2	--	--	--
			01325	00005	----------	C.2.3.1	--	--	--
	Hinthorne, Grace L.		01326	00002	----------	C.3.1.2	--	--	--
			01326	00003	----------	C.2.3.1	--	--	--
	Hoffman, Mrs. A. A.		02082	00001	----------	C.3.4.4	--	--	--
	Hohl, Dr. & Mrs. T.		00125	00001	----------	C.3.4.4	--	--	--
			00125	00003	----------	C.2.8.2	--	--	--
	Hood, George	Big Bend - Alberta, Ltd.	00199	00001	----------	C.2.1.1	--	--	--
	Houff, Rev. William		02519	00001	----------	C.2.3.1	--	--	--
			02519	00002	----------	C.3.2	--	--	--
			02519	00003	----------	C.2.3.1	--	--	--
	Houff, Patty		02551	00002	----------	C.2.4.1	--	--	--
			02551	00003	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02551	00004	----------	C.2.4.1	--	--	--
	Houff, Dr. William Harper		02604	00002	----------	C.2.4.1	--	--	--
	Houff, Dr. William Harper	Hanford Education Action League	02582	00001	----------	C.2.4.1	--	--	--
	Houff, Dr. William Harper	Spokane Unitarian Church	02581	00001	----------	C.2.3.1	--	--	--
			02581	00002	----------	C.3.2	--	--	--
	Houghton, Mark		01127	00001	----------	C.2.1.1	--	--	--
			01127	00004	----------	C.2.8.3	--	--	--
			01127	00005	----------	C.3.1.2	--	--	--
			01127	00006	----------	C.2.1.1	--	--	--
	Houston, Jack		02276	00001	----------	C.2.5.2	--	--	--
			02276	00002	----------	C.2.4.1	--	--	--
	Houts-Hussey, Patty	Diocese of Yakima	00651	00001	DC,RN,DS	C.5.11	C.5.10	C.5.11	C.2.8.3
	Hovis, James		02270	00001	----------	C.2.1.1	--	--	--
	Hovis, Nancy		02271	00001	----------	C.2.1.1	--	--	--
			02271	00003	----------	C.3.4.4	--	--	--
			02271	00004	----------	C.2.3.1	--	--	--
			02271	00005	----------	C.2.3.1	--	--	--
	Hovis, James		02303	00001	----------	C.2.1.1	--	--	--
	Hovis, Nancy		02304	00001	----------	C.2.1.1	--	--	--
			02304	00003	----------	C.3.4.4	--	--	--
			02304	00004	----------	C.2.3.1	--	--	--
			02304	00005	----------	C.2.8.2	--	--	--
	Hoyt Thie, Daryl Krista		01195	00001	----------	C.2.1.1	--	--	--
	Hughes, Jim		02322	00001	----------	C.2.1.2	--	--	--
			02322	00002	----------	C.2.1.1	--	--	--
			02322	00003	----------	C.2.6.1	C.6.4	--	--
			02322	00004	----------	C.3.4.4	--	--	--
	Irwin, Lois S.		00317	00001	----------	C.2.3.1	--	--	--
	Jakubal, Mike		00645	00001	----------	C.3.4.4	--	--	--
			00645	00002	DC	C.7.2.4	--	--	--
			00645	00003	DC	C.7.4	--	--	--
			00645	00004	DC	C.7.4	--	--	--
			00645	00005	DC	C.5.1	--	--	--
			00645	00006	DC	C.5.11	--	--	--
	James, Ron		02516	00001	----------	C.3.4.4	--	--	--
	Jim, Russell		02269	00001	----------	C.2.1.1	--	--	--
			02269	00002	----------	C.2.1.2	--	--	--
			02269	00003	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Johnson, Michael O.		00438	00002	----------	C.3.1.2	--	--	--
	Johnson, Robert W.		01233	00005	----------	C.2.8	--	--	--
	Johnson, Steve		02329	00005	----------	C.3.1.2	--	--	--
	Johnson, Mayor Norman M.	City of Toppenish	02587	00001	----------	C.3.4.4	--	--	--
	Johnson, Doreen	Plateau Preservation Society	00432	00001	----------	C.2.3.1	--	--	--
			00432	00003	----------	C.3.1.2	--	--	--
	Johnson, RN, Mary Lou	Spokane League of Women Voters	02572	00002	----------	C.2.4.1	--	--	--
			02572	00003	----------	C.2.3.1	--	--	--
	Kane, John T. & Family		00200	00001	----------	C.3.4.4	--	--	--
	Kegan, Kyn		02346	00001	----------	C.2.1.1	--	--	--
	Keller, C. Jo		00205	00001	----------	C.3.4.4	--	--	--
	Kelley, William J.	Eastern Washington University	02613	00003	----------	C.2.4.1	--	--	--
			02613	00005	----------	C.7.3	C.2.4.1	--	--
			02613	00006	----------	C.7.3	C.2.4.1	--	--
			02613	00007	----------	C.7.3	C.2.4.1	--	--
			02613	00008	----------	C.7.3	C.2.4.1	--	--
			02613	00009	----------	C.7.3	C.2.4.1	--	--
			02613	00010	----------	C.7.3	C.2.4.1	--	--
			02613	00011	----------	C.7.3	C.2.4.1	--	--
			02613	00012	----------	C.7.3	C.2.4.1	--	--
			02613	00013	----------	C.7.3	C.2.4.1	--	--
	Kelly, Bill		02534	00001	----------	C.2.4.1	--	--	--
			02534	00002	----------	C.2.4.1	--	--	--
			02534	00003	----------	C.2.4.1	--	--	--
			02534	00004	----------	C.2.4.1	--	--	--
	Kessler, Donna		01335	00001	----------	C.3.4.4	--	--	--
			01335	00002	----------	C.3.4.4	--	--	--
			01335	00003	----------	C.3.4.4	--	--	--
	Kiefel, Michael		02566	00004	----------	C.2.3.1	--	--	--
	Kielpinski, Penelope A.		01536	00001	----------	C.3.4.4	--	--	--
			01536	00003	----------	C.3.4.4	--	--	--
			01536	00004	----------	C.3.4.4	--	--	--
			01536	00005	----------	C.3.1.2	--	--	--
			01536	00006	----------	C.3.4.4	--	--	--
	Kieviet, Douglas R.		02565	00001	----------	C.3.1.2	--	--	--
			02565	00002	----------	C.2.6.2	--	--	--
	King, Alexander		00685	00001	----------	C.3.4.4	--	--	--
			00685	00002	----------	C.2.3.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			00685	00003	----------	C.3.1.2	--	--	--
			00685	00007	----------	C.3.1.2	--	--	--
	King, Joseph E.	House of Representatives	01576	00001	----------	C.3.1.2	--	--	--
			01576	00002	----------	C.3.1.2	--	--	--
			01576	00003	----------	C.2.1.2	--	--	--
	Kinne, Susan		00035	00001	----------	C.3.4.4	--	--	--
			00035	00002	DC	C.7.2	--	--	--
			00035	00003	DC	C.7.2	--	--	--
	Kjolso, Mike		00686	00001	----------	C.3.4.4	--	--	--
			00686	00002	----------	C.2.3.1	--	--	--
			00686	00003	----------	C.3.1.2	--	--	--
			00686	00007	----------	C.3.1.2	--	--	--
	Kriedler, Senator Mike	Washington State Senate	00418	00001	----------	C.3.4.4	--	--	--
			00418	00002	----------	C.2.8	--	--	--
			00418	00003	----------	C.3.4.4	--	--	--
			00418	00004	----------	C.3.1.2	--	--	--
	Krueger, Robert F.		01342	00001	----------	C.2.3.3	--	--	--
			01342	00002	----------	C.3.1.2	--	--	--
			01342	00003	----------	C.3.4.4	--	--	--
			01342	00004	----------	C.2.4.1	--	--	--
			01342	00005	----------	C.2.4.1	--	--	--
			01342	00008	----------	C.2.2.1	--	--	--
			01342	00010	----------	C.2.7	--	--	--
	Kuntz, Donn		00624	00001	----------	C.3.1.2	--	--	--
			00624	00002	----------	C.2.3.2	--	--	--
			00624	00003	----------	C.2.3.1	--	--	--
			00624	00004	----------	C.2.3.2	--	--	--
			00624	00005	----------	C.3.1.2	--	--	--
			00624	00006	----------	C.3.1.2	--	--	--
			00624	00007	----------	C.3.1.2	--	--	--
			00624	00013	----------	C.2.4.1	--	--	--
			00624	00015	----------	C.3.1.2	--	--	--
			00624	00018	----------	C.2.3.3	--	--	--
			00624	00020A	----------	C.3.1.1	--	--	--
			00624	00022	----------	C.2.8.1	--	--	--
			00624	00023	----------	C.3.1.2	--	--	--
	Kuntz, Don		02553	00001	----------	C.3.1.2	--	--	--
			02553	00002	----------	C.2.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02553	00003	----------	C.2.3.1	--	--	--
			02553	00004	----------	C.2.3.2	--	--	--
			02553	00005	----------	C.3.1.2	--	--	--
			02553	00006	----------	C.2.8.3	--	--	--
			02553	00012	----------	C.2.4.1	--	--	--
	Kuntz, Don		01510	00001	----------	C.2.2.1	--	--	--
			01510	00002	----------	C.3.1.2	--	--	--
			01510	00003	----------	C.2.3.2	--	--	--
	LaVassar, Joanne B.		00445	00001	----------	C.3.4.4	--	--	--
			00445	00003	DS	C.6.5	--	--	--
			00445	00004	----------	C.3.4.4	--	--	--
	LaVassar, John		00687	00001	----------	C.3.4.4	--	--	--
			00687	00002	----------	C.2.3.1	--	--	--
			00687	00003	----------	C.3.1.2	--	--	--
			00687	00007	----------	C.3.1.2	--	--	--
	LaVassar, Joanne		00688	00001	----------	C.3.4.4	--	--	--
			00688	00002	----------	C.2.3.1	--	--	--
			00688	00003	----------	C.3.1.2	--	--	--
			00688	00007	----------	C.3.1.2	--	--	--
	Laddin, Judy		02548	00001	----------	C.3.1.2	--	--	--
	Laddon, Judy		02598	00001	----------	C.3.1.2	--	--	--
	Lange, Kristen		02435	00001	----------	C.3.4.4	--	--	--
	Larson, William H.		02615	00001	----------	C.3.4.4	--	--	--
	Lasmanis, Raymond	Dept. of Natural Resources	01513	00005	----------	C.7.2	C.2.7	--	--
			01513	00007	----------	C.2.4.1	--	--	--
			01513	00008	----------	C.2.4.1	--	--	--
			01513	00009	----------	C.2.4.1	--	--	--
			01513	00010	----------	C.2.6.1	--	--	--
			01513	00010A	----------	C.2.6.1	--	--	--
			01513	00010B	----------	C.2.4.1	--	--	--
			01513	00011	----------	C.2.4.1	--	--	--
			01513	00054	----------	C.3.4.3	--	--	--
	Lawrence, Robert C.		02412	00001	----------	C.2.3.1	--	--	--
	Lawson, Kevin C.		00370	00001	----------	C.3.4.4	--	--	--
			00370	00002	----------	C.3.1.2	--	--	--
	Lazar, David		02342	00001	----------	C.3.4.4	--	--	--
	Leaumont, Richard J.	Lower Columbia Basin Audubon Soc	01125	00002	----------	C.3.1.2	--	--	--
			01125	00003	----------	C.2.3.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Leibert, Sharon		00113	00001	----------	C.2.8.2	--	--	--
			00113	00002	----------	C.2.8.2	--	--	--
			00113	00003	----------	C.3.4.4	--	--	--
			00113	00004	----------	C.3.4.4	--	--	--
	Leutz, Linda		00408	00001	----------	C.3.4.4	--	--	--
			00408	00002	----------	C.7.3	--	--	--
			00408	00005	----------	C.3.4.4	--	--	--
	Lewis, Robin L.		00393	00001	----------	C.3.4.4	--	--	--
	Lewis, Lynne L.		00666	00001	----------	C.3.4.4	--	--	--
			00666	00002	----------	C.3.4.4	--	--	--
	Liebeler, Penelope		02102	00001	----------	C.3.4.4	--	--	--
	Long, Bobbi Davis		01170	00001	----------	C.3.4.4	--	--	--
			01170	00002	----------	C.3.4.4	--	--	--
	Lorenzo, A. Jane		00550	00001	----------	C.3.4.4	--	--	--
	Lunde, Barbara J.		00492	00001	----------	C.2.8.1	--	--	--
	Lutes, Joy L.		00512	00001	----------	C.3.4.4	--	--	--
			00512	00002	----------	C.3.4.4	--	--	--
			00512	00003	----------	C.3.4.4	--	--	--
			00512	00004	----------	C.2.1.1	--	--	--
	Lutes, Joy		02325	00001	----------	C.3.4.4	--	--	--
			02325	00002	----------	C.2.3.3	--	--	--
			02325	00004	----------	C.2.1.1	--	--	--
	Lyon, James M.		00285	00001	----------	C.3.4.4	--	--	--
	Maag, Judith R.		00684	00001	----------	C.3.4.4	--	--	--
			00684	00002	----------	C.2.3.1	--	--	--
			00684	00003	----------	C.3.1.2	--	--	--
			00684	00007	----------	C.3.1.2	--	--	--
	Maloney, Mrs. D. K.		00481	00001	----------	C.3.1.2	--	--	--
			00481	00002	DC	C.7.2	--	--	--
			00481	00003	----------	C.3.4.4	--	--	--
	Mangan, Al		00094	00001	----------	C.2.1.1	--	--	--
	Mangan, Al		02546	00001	----------	C.2.4.1	--	--	--
			02546	00002	----------	C.2.4.1	--	--	--
			02546	00003	----------	C.2.4.1	--	--	--
			02546	00004	----------	C.2.1.1	--	--	--
			02546	00005	----------	C.2.7	--	--	--
	Mangan, Al		02597	00001	----------	C.2.4.1	--	--	--
			02597	00002	----------	C.2.5.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02597	00003	----------	C.2.4.1	--	--	--
			02597	00004	----------	C.2.4.1	--	--	--
			02597	00005A	----------	C.2.4.1	--	--	--
			02597	00005B	----------	C.2.8.3	--	--	--
			02597	00006	----------	C.2.4.1	--	--	--
			02597	00007	----------	C.2.4.1	--	--	--
			02597	00009	----------	C.2.7	--	--	--
			02597	00010	----------	C.2.7	--	--	--
	Mangan, Al	HCR1	01240	00001	----------	C.2.6	--	--	--
			01240	00002	----------	C.2.4.1	--	--	--
			01240	00003	----------	C.2.8.2	--	--	--
			01240	00004	----------	C.2.4.1	--	--	--
			01240	00005	----------	C.2.4.1	--	--	--
			01240	00006	----------	C.2.4.1	--	--	--
			01240	00008	----------	C.2.4.1	--	--	--
			01240	00009	----------	C.2.4.1	--	--	--
			01240	00011	----------	C.2.4.1	--	--	--
			01240	00012	----------	C.2.8.3	--	--	--
			01240	00013	----------	C.2.1.1	--	--	--
			01240	00014	----------	C.2.7	--	--	--
			01240	00015	----------	C.2.4.1	C.7.3	--	--
			01240	00016	----------	C.2.4.1	--	--	--
			01240	00018	----------	C.2.4.1	--	--	--
			01240	00019	----------	C.2.4.1	--	--	--
			01240	00022	----------	C.2.8.3	--	--	--
			01240	00023	----------	C.2.4.1	--	--	--
	Marcus, Allan H.	Washington State University	00625	00006	----------	C.2.8.2	--	--	--
	Mayer, William H.	FEMA, RX	00255	00001	----------	C.2.7	--	--	--
			00255	00002	----------	C.2.4.1	--	--	--
	McAllister, Maxine		00682	00001	----------	C.2.3.3	--	--	--
			00682	00002	----------	C.2.3.1	--	--	--
			00682	00003	----------	C.3.1.2	--	--	--
			00682	00007	----------	C.3.1.2	--	--	--
	McAllister, Susan		01091	00001	----------	C.3.4.4	--	--	--
			01091	00002	----------	C.2.3.1	--	--	--
			01091	00003	----------	C.3.1.2	--	--	--
			01091	00007	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	McClain, Charles		00314	00001	----------	C.2.3.2	--	--	--
			00314	00002	----------	C.2.3.1	--	--	--
			00314	00003	----------	C.3.4.4	--	--	--
			00314	00004	----------	C.2.8.2	--	--	--
	McCrea, Steve		02518	00001	----------	C.2.4.1	--	--	--
			02518	00002	----------	C.2.4.1	--	--	--
			02518	00003	----------	C.2.4.1	--	--	--
			02518	00004	----------	C.2.4.1	--	--	--
			02518	00005	----------	C.2.4.1	--	--	--
	McKay, Jeffrey		02324	00001	----------	C.2.1.1	--	--	--
	McKusick, Helen		00364	00001	----------	C.3.4.4	C.3.4.4	--	--
			00364	00003	----------	C.3.4.4	--	--	--
	McVicker, Carol		02547	00001	----------	C.2.4.1	--	--	--
			02547	00002	----------	C.2.4.1	--	--	--
			02547	00005	----------	C.2.5.1	--	--	--
	Mcword, Keith		02429	00001	----------	C.3.1.2	--	--	--
	Meeker, Eugenia		02288	00001	----------	C.3.1.2	--	--	--
	Metheny, David		02393	00001	----------	C.3.4.4	--	--	--
	Mickelson, Amy		00616	00001	----------	C.3.1.2	--	--	--
			00616	00002	----------	C.3.1.1	--	--	--
			00616	00003	----------	C.3.1.2	--	--	--
			00616	00007	----------	C.3.1.1	--	--	--
			00616	00014	----------	C.2.8.3	--	--	--
			00616	00019	----------	C.3.1.1	--	--	--
			00616	00020A	----------	C.2.3.2	--	--	--
			00616	00020B	----------	C.2.6.3	--	--	--
			00616	00021	----------	C.2.2.1	--	--	--
			00616	00022	----------	C.2.1.1	--	--	--
			00616	00023	----------	C.3.1.2	--	--	--
			00616	00025	----------	C.2.7	--	--	--
			00616	00026	----------	C.2.7	--	--	--
			00616	00027	----------	C.2.8.2	--	--	--
			00616	00028	----------	C.2.8	--	--	--
	Mickelson, Amy		02544	00001	----------	C.3.1.2	--	--	--
			02544	00002	----------	C.3.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02544	00004	----------	C.2.2.1	--	--	--
			02544	00005	----------	C.2.3.2	--	--	--
	Mickelson, Amy		02596	00001	----------	C.3.1.2	--	--	--
			02596	00002	----------	C.3.1.1	--	--	--
			02596	00004	----------	C.3.1.1	--	--	--
	Miles, Joe		01356	00001	----------	C.3.4.4	--	--	--
	Miller, Michael Barrett		00213	00001	----------	C.3.4.4	--	--	--
	Mineke, Jim & Ruth		00662	00001	----------	C.3.4.4	--	--	--
	Mizrahi, Nancy Kelley		01228	00001	----------	C.4.2.1	C.5.1	--	--
			01228	00002	----------	C.3.4.1	--	--	--
			01228	00003	----------	C.3.1.2	--	--	--
			01228	00004	----------	C.3.4.2.3	--	--	--
			01228	00005	----------	C.3.4.3	--	--	--
			01228	00006	----------	C.3.1.2	--	--	--
	Montague, Evelyn		01166	00001	----------	C.2.4.1	C.3.1.2	C.3.2	--
			01166	00002	----------	C.2.7	C.2.1.1	--	--
	Moomaw, Alan		01081	00001	----------	C.3.1.2	--	--	--
			01081	00002	----------	C.3.4.4	C.3.1.2	--	--
			01081	00003	----------	C.3.1.2	--	--	--
			01081	00005	----------	C.3.4.3	--	--	--
			01081	00006	----------	C.3.1.2	--	--	--
	Moon, S.A.	Dept. of Transportation	01515	00004	----------	C.2.4.1	--	--	--
			01515	00009	----------	C.3.4.3	--	--	--
			01515	00010	----------	C.2.7	--	--	--
	Mootry, Joan		02517	00001	----------	C.2.1.2	--	--	--
			02517	00002	----------	C.2.8.3	--	--	--
			02517	00003	----------	C.2.1.1	--	--	--
			02517	00004	----------	C.2.3.1	--	--	--
	Morris, Newton		02405	00001	----------	C.2.1.1	--	--	--
			02405	00003	----------	C.3.1.2	--	--	--
			02405	00004	----------	C.3.1.2	--	--	--
	Mote, Karl W.	Mining Association	01503	00001	----------	C.2.4.1	--	--	--
	Mote, Karl W.	Northwest Mining Association	00442	00001	----------	C.3.4.4	--	--	--
	Neff, Mary E.		00097	00001	----------	C.2.8.1	--	--	--
	Nelson, Milton		00336	00003	----------	C.3.4.4	--	--	--
	Nelson, Marcella		00556	00001	----------	C.3.4.4	--	--	--
			00556	00002	----------	C.2.4.1	--	--	--
	Nelson, Dick		02331	00003	----------	C.7.4	C.2.2	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02331	00004	----------	C.2.1.1	--	--	--
	Newell, Greg		00416	00001	----------	C.2.8.2	--	--	--
	Noll, Alice		02392	00001	----------	C.2.6.1	--	--	--
			02392	00003	----------	C.2.1.1	--	--	--
	Novak, Terry		02526	00002	----------	C.2.4.1	--	--	--
	Novak, Terry L.	City of Spokane	02589	00002	----------	C.2.4.1	--	--	--
	Nuess, Mike		02533	00001	----------	C.3.4.4	--	--	--
			02533	00002	----------	C.2.7	C.5.1	--	--
			02533	00003	----------	C.2.8.2	--	--	--
	Nuess, Mike		02591	00001	----------	C.3.4.4	--	--	--
			02591	00002A	----------	C.2.7	--	--	--
			02591	00005	----------	C.2.5.1	--	--	--
	Nutley, Representative Busse	Wash State House Representatives	01596	00002	----------	C.2.8.3	--	--	--
	Nwab, Charles		02293	00001	----------	C.3.1.2	--	--	--
	Nylander, Donna		02522	00001	----------	C.2.3.1	--	--	--
			02522	00002	----------	C.2.3.1	--	--	--
			02522	00003	----------	C.2.4.1	--	--	--
			02522	00006	----------	C.2.1.1	--	--	--
		City of Ellensburg	01307	00001	----------	C.2.1.1	--	--	--
			01307	00002	----------	C.2.3	--	--	--
			01307	00003	----------	C.2.4.1	--	--	--
			01307	00004	----------	C.2.3	--	--	--
			01307	00005	----------	C.2.3	--	--	--
			01307	00006	----------	C.2.3.3	--	--	--
	O'Neal, Diane		00324	00001	----------	C.3.4.4	--	--	--
			00667	00002	----------	C.3.4.4	--	--	--
	O'Reilly-Doyle, Kathleen		01322	00001	----------	C.3.4.3	--	--	--
			01322	00006	----------	C.2.4.1	--	--	--
	Oliver, Dan		00166	00001	----------	C.3.4.4	--	--	--
	Olsen, Gordon D. & Bonnie A.		01315	00003	----------	C.2.3.2	--	--	--
	Oram, Jr., Ray		02382	00001	----------	C.2.5.2	--	--	--
			02382	00002	----------	C.2.8.1	--	--	--
	Ortman, David E.		02375	00001	----------	C.2.6.1	--	--	--
			02375	00002	----------	C.3.1.2	--	--	--
	Otto, Dale		01324	00001	----------	C.3.4.4	--	--	--
			01324	00003	----------	C.2.4.1	--	--	--
			01324	00004	----------	C.2.4.1	--	--	--
	Packer, S.E.		01121	00001	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01121	00002	----------	C.3.4.4	--	--	--
	Para, Molly J.		00535	00001	----------	C.3.4.4	--	--	--
	Parson, Janice		02266	00001	----------	C.2.1.1	--	--	--
	Partain, Dr. William L.		01114	00001	----------	C.3.4.4	--	--	--
			01114	00002	----------	C.2.3.3	--	--	--
			01114	00003	----------	C.3.4.4	--	--	--
	Paul, Alexa Drew		00335	00001	----------	C.3.4.4	--	--	--
	Pellett, Howard		00072	00001	----------	C.3.4.4	--	--	--
			00072	00002	DC	C.7.2	--	--	--
	Penberthy, Larry		02312	00004	----------	C.2.4.2	--	--	--
	Penberthy, H. Larry		02620	00001	----------	C.2.3.1	--	--	--
			02620	00002	----------	C.3.3	--	--	--
	Penberthy, Larry	Penberthy Electromelt Int'l Inc	02358	00001	----------	C.3.1.2	--	--	--
			02358	00002	----------	C.3.1.2	--	--	--
	Penberthy, Larry		02359	00001	----------	C.2.7	--	--	--
	Pence, Mark		02292	00001	----------	C.2.1.1	--	--	--
			02292	00002	----------	C.2.1.1	--	--	--
	Peterson, Warren S.		00482	00002	----------	C.2.4.1	--	--	--
			00482	00003	----------	C.2.8	--	--	--
			00482	00004	----------	C.3.1.2	--	--	--
			00482	00007	----------	C.3.4.1	--	--	--
			00482	00009	----------	C.3.1.2	--	--	--
			00482	00010	----------	C.3.4.4	--	--	--
	Peterson, M.		00672	00001	----------	C.3.4.4	--	--	--
	Pierglund, D. E.	WASHPIRG	02439	00001	----------	C.3.4.4	--	--	--
	Pilcher, Patrick		02396	00001	----------	C.2.1.1	--	--	--
			02396	00002	----------	C.2.6.1	--	--	--
	Pilcher, Patrick L.		02427	00005	----------	C.3.4.4	--	--	--
			02427	00006	----------	C.2.3.2	--	--	--
	Platt, Chris		02339	00001	----------	C.3.1.2	--	--	--
			02339	00004	----------	C.2.4.1	--	--	--
	Platt, Chris		02369	00001	----------	C.3.1.2	--	--	--
			02369	00002	----------	C.3.4.1	--	--	--
			02369	00004	----------	C.2.4.1	--	--	--
	Plattner, Jacqueline		02401	00008	----------	C.2.4.1	--	--	--
			02401	00009	----------	C.2.4.1	--	--	--
	Poeter, Eileen		01525	00002	----------	C.2.7	--	--	--
	Poinor, Mayor John		02557	00001	----------	C.2.4.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02557	00003	----------	C.2.1.1	--	--	--
	Pollet, Gerald		02399	00001	----------	C.2.1.1	--	--	--
			02399	00002	----------	C.2.1.1	--	--	--
			02399	00003	----------	C.2.1.1	--	--	--
			02399	00004	----------	C.2.4.3	--	--	--
			02399	00005	----------	C.2.6.1	--	--	--
			02399	00006	----------	C.2.6.1	--	--	--
			02399	00007	----------	C.2.3.3	--	--	--
			02399	00008	----------	C.3.4.3	--	--	--
	Powell, Walbridge J.		02380	00001	----------	C.2.7	--	--	--
			02380	00002	----------	C.2.8.2	--	--	--
			02380	00007	----------	C.3.1.2	--	--	--
			02380	00010	----------	C.2.1.1	--	--	--
	Powell, Walbridge J.		02421	00001	----------	C.2.7	--	--	--
			02421	00002	----------	C.2.8.2	--	--	--
	Power, Max	Washington State Legislature	01499	00001	----------	C.3.4.4	--	--	--
			01499	00002	----------	C.3.4.3	--	--	--
			01499	00003	----------	C.3.4.3	--	--	--
			01499	00004	----------	C.3.4.3	--	--	--
			01499	00005	----------	C.3.4.3	--	--	--
			01499	00006	----------	C.3.4.3	--	--	--
			01499	00007	----------	C.3.4.3	--	--	--
			01499	00008	----------	C.3.4.3	--	--	--
			01499	00009	----------	C.3.4.4	--	--	--
			01499	00010	----------	C.3.4.3	--	--	--
			01499	00011	----------	C.3.4.3	--	--	--
			01499	00012	----------	C.3.4.3	--	--	--
			01499	00013	----------	C.3.4.3	--	--	--
			01499	00014	----------	C.3.4.3	--	--	--
			01499	00015	----------	C.3.4.3	--	--	--
			01499	00016	----------	C.3.4.3	--	--	--
			01499	00017	----------	C.3.4.3	--	--	--
			01499	00018	----------	C.3.4.3	--	--	--
			01499	00019	----------	C.3.4.3	--	--	--
			01499	00020	----------	C.3.4.3	--	--	--
			01499	00021	----------	C.3.4.4	--	--	--
	Poyner, Mayor John	City of Richland	02301	00001	----------	C.2.4.1	--	--	--
			02301	00003	----------	C.2.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Poyner, Mayor John		02602	00001	----------	C.2.4.1	--	--	--
			02602	00003	----------	C.2.1.1	--	--	--
	Poynor, Mayor John		02264	00001	----------	C.2.4.1	--	--	--
			02264	00003	----------	C.2.1.1	--	--	--
	Price, Eleanor		02344	00001	----------	C.2.1.1	--	--	--
			02344	00002	----------	C.3.1.2	--	--	--
	Quigley, Phillip		02340	00001	----------	C.3.4.2.2	--	--	--
			02340	00003	----------	C.2.3.1	--	--	--
			02340	00004	----------	C.2.1.1	--	--	--
			02340	00006	----------	C.2.6	--	--	--
			02340	00007	----------	C.3.4.4	--	--	--
	Ramsey, Colleen		01200	00001	----------	C.2.3.3	--	--	--
			01200	00002	----------	C.2.3	--	--	--
			01200	00003	----------	C.2.3	--	--	--
			01200	00007	----------	C.3.4.4	--	--	--
	Rapport, Dr. Richard		02387	00001	----------	C.2.8.2	--	--	--
	Redfearn, Brett		02330	00001	----------	C.3.1.1	--	--	--
			02330	00002	----------	C.3.1.2	--	--	--
			02330	00003	----------	C.2.2	--	--	--
			02330	00004	----------	C.2.7.1	--	--	--
			02330	00005	----------	C.2.4.3	--	--	--
			02330	00006	----------	C.2.6.1	--	--	--
			02330	00007	----------	C.2.1.1	--	--	--
	Redfearn, Brett		02341	00001	----------	C.2.4.1	--	--	--
	Reel, David		02403	00003	----------	C.3.1.2	--	--	--
			02403	00004	----------	C.2.5.2	--	--	--
			02403	00006	----------	C.2.4.1	--	--	--
			02403	00022	----------	C.3.4.1	--	--	--
			02403	00029	----------	C.2.3.1	--	--	--
			02403	00030	----------	C.2.3.1	--	--	--
			02403	00031	----------	C.3.1.1	--	--	--
			02403	00032	----------	C.2.4.3	--	--	--
			02403	00033	----------	C.3.1.2	--	--	--
	Reel, David		02426	00001	----------	C.2.3.1	--	--	--
			02426	00003	----------	C.2.2.1	--	--	--
			02426	00005	----------	C.3.4	--	--	--
			02426	00007	----------	C.2.7	C.7.4	--	--
			02426	00008	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02426	00009	----------	C.2.5.2	--	--	--
			02426	00011	----------	C.2.4.1	--	--	--
			02426	00027	----------	C.3.4.3	--	--	--
			02426	00034	----------	C.2.3.1	--	--	--
			02426	00035	----------	C.2.3.1	--	--	--
			02426	00036	----------	C.3.1.1	--	--	--
			02426	00037	----------	C.2.4.3	--	--	--
			02426	00038	----------	C.3.1.2	--	--	--
			02426	00039	----------	C.2.7	--	--	--
	Renaud, Mary		01574	00001	----------	C.3.4.4	--	--	--
	Reynolds, Edward A.		02570	00001	----------	C.2.5.2	--	--	--
	Richardson, Barbara		02541	00001A	----------	C.3.4.4	--	--	--
			02541	00001B	----------	C.3.1.2	--	--	--
			02541	00001C	----------	C.3.4.4	--	--	--
	Richmond, Teresa N.		01131	00001	----------	C.3.3	--	--	--
			01131	00002	----------	C.2.3.1	--	--	--
	Ridgeway, John		02350	00001	----------	C.2.1.1	--	--	--
	Risbell, Marian		00362	00001	----------	C.3.1.2	--	--	--
			00362	00002	----------	C.2.3.2	--	--	--
			00362	00003	----------	C.2.8.3	--	--	--
			00362	00005	----------	C.3.1.2	--	--	--
			00362	00008	----------	C.2.5.1	--	--	--
	Robillard, Mrs. F. E.		02081	00001	----------	C.3.4.4	--	--	--
	Rose, Bob		02327	00001	----------	C.2.2	--	--	--
			02327	00002	----------	C.2.2	--	--	--
			02327	00003	----------	C.3.1.2	--	--	--
			02327	00004	----------	C.2.4.3	--	--	--
			02327	00005	----------	C.3.1.2	--	--	--
			02327	00006	----------	C.3.1.2	--	--	--
			02327	00007	----------	C.2.3.1	--	--	--
			02327	00008	----------	C.2.3.1	--	--	--
			02327	00010	----------	C.2.8.3	--	--	--
	Rose, Bob		02628	00001	----------	C.2.2	--	--	--
			02628	00002	----------	C.2.2	--	--	--
			02628	00003	----------	C.3.3	--	--	--
			02628	00004	----------	C.2.4.3	--	--	--
			02628	00005	----------	C.3.1.2	--	--	--
			02628	00006	----------	C.3.1.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02628	00007	----------	C.2.3.1	--	--	--
			02628	00008	----------	C.2.3.1	--	--	--
			02628	00010	----------	C.2.8.3	--	--	--
	Rosenberg, Leslie		02413	00001	----------	C.3.4.4	--	--	--
			02413	00002	----------	C.2.3.1	--	--	--
	Ross, Kathleen A.	Heritage College	01222	00001	----------	C.3.1.2	--	--	--
			01222	00003	----------	C.3.1.2	--	--	--
	Rowland, Skip		02528	00001	----------	C.2.4.1	--	--	--
	Runestrand, Sally		02616	00001	----------	C.3.1.2	C.7.2	--	--
	Rupel, William E.		02299	00001	----------	C.3.4.4	--	--	--
	Rupel, William E.	Department of Energy	02261	00001	----------	C.3.4.4	--	--	--
	Russell, Mary and James		00457	00001	----------	C.3.4.4	--	--	--
	Rust, Michael S.		01530	00001	----------	C.3.4.4	--	--	--
	Ryan, Chilton "Tope"		01355	00001	----------	C.2.3.1	--	--	--
			01355	00007	----------	C.2.6.1	--	--	--
			01355	00008	----------	C.3.4.4	--	--	--
	Salter, Andrew H.		00257	00001	DC	C.7.1.1	--	--	--
	Sampson, Vice-Chair, Melvin R.	Yakima Indian Nation	01273	00004	----------	C.3.1.2	--	--	--
			01273	00005	----------	C.3.1.2	--	--	--
			01273	00041	----------	C.3.1.1	--	--	--
			01273	00095	----------	C.3.1.2	--	--	--
			01273	00096	----------	C.3.4.3	--	--	--
			01273	00097	----------	C.3.4.1	--	--	--
			01273	00098	----------	C.3.4.1	--	--	--
			01273	00099	----------	C.3.4.1	--	--	--
			01273	00100	----------	C.3.4	--	--	--
			01273	00101	----------	C.3.4	--	--	--
			01273	00102	----------	C.3.4.2	--	--	--
			01273	00103	----------	C.3.4.2.1	--	--	--
			01273	00104	----------	C.3.4	--	--	--
			01273	00105	----------	C.3.4	--	--	--
			01273	00106	----------	C.3.4.2.2	--	--	--
			01273	00107	----------	C.3.4	--	--	--
			01273	00108	----------	C.3.4	--	--	--
			01273	00109	----------	C.3.4.2.3	--	--	--
			01273	00110	----------	C.3.4.3	--	--	--
			01273	00112	----------	C.3.4.3	--	--	--
			01273	00113	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			01273	00114	----------	C.7.3	--	--	--
			01273	00115	----------	C.2.4.1	--	--	--
			01273	00116	----------	C.2.4.1	--	--	--
			01273	00117A	----------	C.3.4.4	--	--	--
			01273	00117B	----------	C.2.4.1	--	--	--
			01273	00118	----------	C.3.4.3	--	--	--
			01273	00119	----------	C.3.4.3	--	--	--
			01273	00120	----------	C.2.2	--	--	--
			01273	00121	----------	C.2.3.1	--	--	--
			01273	00129	----------	C.3.4.3	--	--	--
			01273	00130	----------	C.3.1.2	--	--	--
			01273	00136	----------	C.3.4.3	--	--	--
			01273	00138	----------	C.2.4.1	--	--	--
			01273	00139	----------	C.2.3.3	--	--	--
	Saracino,Jr., Anthony V.		00349	00004	----------	C.3.1.2	--	--	--
	Sauers, Jack		00250	00003	----------	C.3.1.2	--	--	--
	Savage, Cathy		01155	00001	----------	C.3.4.4	--	--	--
			01155	00002	----------	C.2.4.1	--	--	--
			01155	00003	----------	C.3.1.2	--	--	--
	Scherpelz, Robert I.		00675	00001	----------	C.3.4.4	--	--	--
			00675	00002	----------	C.2.1.1	--	--	--
	Schmidt, Cynthia M.		00665	00001	----------	C.3.4.4	--	--	--
	Schmidt, Bob		02280	00001	----------	C.2.3.1	--	--	--
			02280	00002	----------	C.3.1.2	--	--	--
			02280	00003	----------	C.2.1.2	--	--	--
	Schoen, Mayor George A.	Town of South Cle Elum	00238	00001	----------	C.3.1.2	--	--	--
			00238	00002	----------	C.3.1.2	--	--	--
	Schultz, Stephen		01196	00001	----------	C.2.3.3	--	--	--
			01196	00002	----------	C.2.3	--	--	--
			01196	00003	----------	C.2.3	--	--	--
			01196	00007	----------	C.3.4.4	--	--	--
	See, Molly		01327	00001	----------	C.3.4.4	--	--	--
			01327	00002	----------	C.3.4.4	--	--	--
			01327	00003	----------	C.3.4.2.1	--	--	--
			01327	00004	----------	C.3.4.1	--	--	--
			01327	00005	----------	C.2.3.1	--	--	--
	See, Molly		02268	00001	----------	C.2.1.1	--	--	--
	See, Elizabeth		02437	00001	----------	C.2.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Seidl, Bryce	City of Vancouver	01053	00001	----------	C.2.3.3	--	--	--
			01053	00002	----------	C.2.5.2	--	--	--
			01053	00003	----------	C.3.4.4	--	--	--
	Sharples, Vivien		02430	00002	----------	C.3.4.4	--	--	--
	Shay, Mr. & Mrs. Rodney O.		00454	00001	----------	C.3.4.4	--	--	--
	Sheffter, Nancy		01080	00001	----------	C.3.4.4	--	--	--
	Sheppard, Irene		00433	00001	----------	C.3.1.2	--	--	--
	Sheroke, Charles		02567	00001	----------	C.2.2	--	--	--
			02567	00002	----------	C.2.4.1	--	--	--
	Shields, Walter W.		02540	00003	----------	C.2.4.1	--	--	--
			02540	00004	----------	C.2.4.1	--	--	--
	Shields, Walter W.		02595	00003	----------	C.2.4.1	--	--	--
			02595	00004	----------	C.2.4.1	--	--	--
	Shook, Larry		02558	00001	----------	C.3.1.2	C.2.3.1	--	--
			02558	00001A	----------	C.3.4.4	--	--	--
			02558	00001B	----------	C.2.3.1	--	--	--
			02558	00002	----------	C.2.3.1	--	--	--
	Sisk, Robert	Wash Nuc. Weapons Freeze Coalition	02101	00001	----------	C.3.4.4	--	--	--
	Skala, Mayor Ernest J.	City of North Bonneville	01203	00001	----------	C.2.1.1	--	--	--
			01203	00002	----------	C.2.2	--	--	--
			01203	00003	----------	C.2.6.1	--	--	--
			01203	00005	----------	C.2.3	--	--	--
			01203	00006	----------	C.7.4	C.3.2	--	--
			01203	00007	----------	C.3.1.2	--	--	--
			01203	00008	----------	C.2.1.1	--	--	--
			01203	00009	----------	C.2.3.3	--	--	--
			01203	00014	----------	C.3.1.2	--	--	--
			01203	00015	----------	C.2.3	--	--	--
			01203	00016	----------	C.3.1.2	--	--	--
	Smith, Pam		00143	00002	----------	C.2.8.2	--	--	--
	Smith, Ben		00174	00002	----------	C.2.8.1	--	--	--
	Smith, Al		00397	00005	----------	C.2.7	--	--	--
	Snow, Jeanne Carter		01328	00001	----------	C.3.1.2	--	--	--
			01328	00002	----------	C.2.1.1	--	--	--
	Soveroski, Marie		01281	00005	----------	C.3.4.3	--	--	--
			01281	00007	----------	C.2.3.1	--	--	--
			01281	00008	----------	C.2.8.3	--	--	--
	Soveroski, Marie		02511	00007	----------	C.2.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Spitznagel, Steve		01147	00001	----------	C.3.4.4	--	--	--
			01147	00004	----------	C.2.6.1	--	--	--
			01147	00006	----------	C.2.8.3	--	--	--
			01147	00007	----------	C.2.3.2	--	--	--
	Stack, Karen		00631	00002	----------	C.3.1.2	--	--	--
	Stewart, Loretta		00119	00001A	----------	C.3.4.4	--	--	--
			00119	00001E	----------	C.3.4.4	--	--	--
	Stewart, Cheryl		00417	00001	----------	C.3.1.2	--	--	--
			00417	00003	----------	C.2.3.1	--	--	--
			00417	00004	----------	C.2.3.1	--	--	--
	Stiles, Kim		01073	00001	----------	C.3.4.4	--	--	--
	Storey, Ann		02282	00001	----------	C.2.3.3	--	--	--
	Swanson, Susan		00632	00002	----------	C.3.1.2	--	--	--
	Swanson, Elizabeth M.	Clark County Pomona No. 1	01537	00001	----------	C.3.1.2	--	--	--
	Swatzell, June		00547	00001	----------	C.3.4.4	--	--	--
			00547	00002	----------	C.2.3.1	--	--	--
	Szulinski, M.J.		01346	00001	----------	C.2.5	--	--	--
			01346	00002	----------	C.3.1.2	--	--	--
			01346	00003	----------	C.3.1.2	--	--	--
			01346	00004	----------	C.3.4.3	--	--	--
			01346	00005	----------	C.5.8	--	--	--
			01346	00012	----------	C.3.4.4	--	--	--
	Taggart, Tom		02524	00001	----------	C.2.4.1	--	--	--
	Talkington, Scott		00130	00001	----------	C.3.1.2	--	--	--
			00130	00002	DC	C.7.2	--	--	--
			00130	00003	----------	C.3.4.4	--	--	--
			00130	00004	----------	C.3.1.2	--	--	--
	Tatom, Jeff		02414	00002	----------	C.2.4.1	--	--	--
			02414	00003	----------	C.2.3.3	--	--	--
			02414	00004	----------	C.2.3.3	--	--	--
	Taylor, Paul J.		02574	00001	----------	C.2.8.2	--	--	--
	Telford, Paul		02318	00001	----------	C.2.1.1	--	--	--
	Thatcher, H. Stanton & Barbara		01164	00001	----------	C.3.4.4	--	--	--
			01164	00005	----------	C.3.4.4	--	--	--
			01164	00006	----------	C.3.4.4	--	--	--
	Thomas, James P.		00483	00001	----------	C.3.1.1	--	--	--
			00483	00003	----------	C.2.3.3	--	--	--
			00483	00004	----------	C.2.7	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			00483	00005	----------	C.3.1.2	--	--	--
			00483	00006	----------	C.3.4.3	--	--	--
			00483	00007A	----------	C.3.4	--	--	--
			00483	00007B	----------	C.3.4	--	--	--
			00483	00008A	----------	C.2.3.2	--	--	--
			00483	00008B	----------	C.2.7	--	--	--
			00483	00008C	----------	C.2.7	--	--	--
			00483	00009	----------	C.2.1.1	--	--	--
	Thomas, Angelina Cory		01126	00001	----------	C.2.8.1	--	--	--
			01126	00002A	----------	C.3.1.2	--	--	--
			01126	00002B	----------	C.3.1.2	--	--	--
			01126	00003	----------	C.2.8.1	--	--	--
			01126	00005	----------	C.2.4.1	--	--	--
	Thomas, James		02512	00001	----------	C.3.1.1	--	--	--
			02512	00003	----------	C.2.7	--	--	--
			02512	00004	----------	C.2.5.2	--	--	--
			02512	00005	----------	C.3.4.3	--	--	--
			02512	00006	----------	C.3.4.3	--	--	--
			02512	00007	----------	C.3.4.3	--	--	--
			02512	00008	----------	C.3.1.2	--	--	--
			02512	00009	----------	C.3.4.4	--	--	--
			02512	00010	----------	C.2.3.2	--	--	--
			02512	00011	----------	C.3.1.2	--	--	--
			02512	00012	----------	C.2.7	--	--	--
	Thomas, James P.		02575	00001	----------	C.3.1.1	--	--	--
			02575	00003	----------	C.2.7	--	--	--
			02575	00004	----------	C.2.5.2	--	--	--
			02575	00005	----------	C.3.4.3	--	--	--
			02575	00006	----------	C.3.4.3	--	--	--
			02575	00007	----------	C.3.4.3	--	--	--
			02575	00008	----------	C.3.1.2	--	--	--
			02575	00009	----------	C.3.1.1	--	--	--
			02575	00010	----------	C.2.8	--	--	--
			02575	00011	----------	C.3.1.1	--	--	--
			02575	00012	----------	C.2.8	--	--	--
	Tickner, Arthur L. and Wyn		00390	00001	----------	C.3.1.2	--	--	--
			00390	00002	----------	C.2.5.1	--	--	--
			00390	00003	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Tisch, Shirley		01067	00001	----------	C.3.4.4	--	--	--
	Tollackson, Dorothy		00450	00001	----------	C.3.4.4	--	--	--
			00450	00002	----------	C.3.1.2	--	--	--
	Towne, Henry		01505	00001	----------	C.2.5.2	--	--	--
	Townsend, Shari		02109	00002	----------	C.2.7	--	--	--
			02109	00003	----------	C.2.4.1	--	--	--
	Turnbull, David S.		00664	00001	----------	C.3.4.4	--	--	--
	Tuttle, Daniel and Barbara		00434	00001	----------	C.3.1.2	--	--	--
			00434	00002	----------	C.3.1.2	--	--	--
	Unsoeld, Jolene	House of Representatives	01236	00001	----------	C.2.1.1	--	--	--
			01236	00002	----------	C.3.4.3	--	--	--
			01236	00003	----------	C.3.1.3	C.6.4	--	--
			01236	00006	----------	C.3.4.4	--	--	--
	Unterschuetz, Susan		02559	00001	----------	C.2.1.1	--	--	--
	Valenzuela, Karengale		01120	00001	----------	C.3.4.4	--	--	--
			01120	00004	----------	C.2.4.1	--	--	--
			01120	00005	----------	C.3.4.4	--	--	--
	Vinson, Greg		02417	00001	----------	C.3.1.2	--	--	--
	Volpentest, Mr. Sam	Tri-City Nuc. Industrial Council	02263	00001	----------	C.2.1.1	--	--	--
			02263	00002	----------	C.2.1.2	--	--	--
			02263	00003	----------	C.2.1.2	--	--	--
	Wahl, Kathleen M.		02415	00001	----------	C.2.1.1	--	--	--
	Walters, C.		00212	00001	----------	C.3.4.4	--	--	--
	Wardle, Jay		01124	00001	----------	C.3.3.1	--	--	--
			01124	00002	----------	C.2.7	--	--	--
			01124	00006	----------	C.2.8.3	--	--	--
			01124	00007	----------	C.2.6.3	--	--	--
	Warner, James E.		01283	00001	----------	C.3.4.4	--	--	--
			01283	00002	----------	C.2.3.1	--	--	--
			01283	00003	----------	C.3.1.2	--	--	--
			01283	00007	----------	C.3.4.4	--	--	--
	Warren, Roselee		01229	00001	----------	C.2.4.3	--	--	--
			01229	00002	----------	C.3.1.2	--	--	--
			01229	00003	----------	C.3.1.2	--	--	--
			01229	00004	----------	C.2.8.2	--	--	--
	Warwick, Lorintha		02525	00001	----------	C.3.4.4	--	--	--
	Washburn, Steve R.		02316	00001	----------	C.2.1.1	C.7.3	C.3.1.2	--
			02316	00002	----------	C.2.1.1	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Washburn, Steve R.		02626	00001	----------	C.3.4.4	--	--	--
			02626	00002	----------	C.2.1.1	--	--	--
	Watts, Peggy		01205	00001	----------	C.3.1.2	--	--	--
	Weiner, Ruth		02332	00001	----------	C.2.1.1	--	--	--
			02332	00002	----------	C.2.8.3	--	--	--
			02332	00003	----------	C.3.4.4	--	--	--
			02332	00004	----------	C.3.1.2	--	--	--
			02332	00007	----------	C.3.1.2	--	--	--
			02332	00008	----------	C.3.1.2	--	--	--
			02332	00010	----------	C.2.5.2	--	--	--
			02332	00011	----------	C.2.2.1	--	--	--
			02332	00025	----------	C.3.1.2	--	--	--
			02332	00026	----------	C.3.1.2	--	--	--
	Weiner, Ruth F.		02363	00001	----------	C.2.6.1	--	--	--
			02363	00002	----------	C.3.4.4	--	--	--
			02363	00003	----------	C.3.3	--	--	--
			02363	00006	----------	C.3.3	--	--	--
			02363	00007	----------	C.3.3	--	--	--
			02363	00009	----------	C.2.5.2	--	--	--
			02363	00010	----------	C.3.1.2	--	--	--
			02363	00011	----------	C.3.1.2	--	--	--
			02363	00012	----------	C.2.7.1	--	--	--
			02363	00021	----------	C.3.1.2	--	--	--
			02363	00048	----------	C.3.4.3	--	--	--
	Weis, Deborah S.		02434	00001	----------	C.3.4.4	--	--	--
	Welinski, C. J.		00447	00001	----------	C.3.4.4	--	--	--
			00447	00002	----------	C.3.1.2	--	--	--
	Wendling, F. E.		01206	00001	----------	C.3.4.4	--	--	--
	Wheeler, Catherine A.		00099	00002	----------	C.3.1.2	--	--	--
	Wheeler, Catherine A.		00162	00002	----------	C.3.4.4	--	--	--
			00162	00003	----------	C.2.5.2	--	--	--
			00162	00004	----------	C.2.8.2	--	--	--
			00162	00005	----------	C.2.8.2	--	--	--
			00162	00006	----------	C.2.3.1	--	--	--
	Whitbeck, R.O.N.	Christian Commun. Consultants	01532	00001	----------	C.3.4.4	--	--	--
	Whitbeck, R.O.N.	Christian Commun. Consultants	02083	00001	----------	C.3.4.4	--	--	--
	White, Margaret S.		00674	00001	----------	C.2.8.2	--	--	--
			00674	00003	----------	C.2.8.2	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Whitson, Paula L.	Spokane Group Sierra Club	02594	00001	----------	C.2.1.3	--	--	--
			02594	00002	----------	C.2.3.3	--	--	--
			02594	00003	----------	C.2.3.1	--	--	--
			02594	00004	----------	C.3.1.2	--	--	--
			02594	00005	----------	C.2.4.2	--	--	--
			02594	00006	----------	C.2.4.1	--	--	--
			02594	00007	----------	C.2.4.1	--	--	--
			02594	00008	----------	C.2.4.1	--	--	--
			02594	00009	----------	C.2.4.1	--	--	--
			02594	00010	----------	C.2.4.1	--	--	--
			02594	00011	----------	C.2.1.1	--	--	--
			02594	00012	----------	C.2.1.1	--	--	--
	Wilgress, Laura		02398	00001	----------	C.2.8.2	--	--	--
	Wilkinson, J.R.		00144	00001	----------	C.3.1.2	--	--	--
			00144	00012	----------	C.3.4.2.4	--	--	--
			00144	00013	----------	C.2.3.3	--	--	--
			00144	00014	----------	C.3.4.4	--	--	--
			00144	00015	----------	C.3.4.4	--	--	--
			00144	00016	----------	C.3.4.4	--	--	--
			00144	00017	----------	C.2.8.1	--	--	--
			00144	00018	----------	C.2.8.1	--	--	--
	Wilkinson, James R.		02520	00001	----------	C.3.1.2	--	--	--
			02520	00004	----------	C.3.1.2	--	--	--
	Wilkinson, James R.		02584	00001	----------	C.3.1.2	--	--	--
			02584	00012	----------	C.3.4.2.4	--	--	--
			02584	00013	----------	C.2.3.3	--	--	--
			02584	00014	----------	C.2.3	--	--	--
			02584	00015	----------	C.3.4.4	--	--	--
			02584	00016	----------	C.3.4.4	--	--	--
			02584	00017	----------	C.2.8.1	--	--	--
	Williams, Agatha		00683	00001	----------	C.2.3.3	--	--	--
			00683	00002	----------	C.2.3.1	--	--	--
			00683	00003	----------	C.3.1.2	--	--	--
			00683	00007	----------	C.3.1.2	--	--	--
	Williams, Thomas		01198	00001	----------	C.2.3.3	--	--	--
			01198	00002	----------	C.2.3	--	--	--
			01198	00003	----------	C.2.3	--	--	--
			01198	00007	----------	C.3.4.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Williams, Senator Al		02314	00001	----------	C.2.1.1	--	--	--
			02314	00002	----------	C.3.3	--	--	--
			02314	00003	----------	C.3.4.3	--	--	--
			02314	00004	----------	C.3.4.3	--	--	--
			02314	00005	----------	C.3.4.3	--	--	--
			02314	00006	----------	C.3.4.3	--	--	--
	Williams, Al	ECO Northwest	02361	00001	----------	C.3.4.3	--	--	--
			02361	00002	----------	C.3.4.3	--	--	--
			02361	00003	----------	C.3.4.3	--	--	--
			02361	00004	----------	C.3.4.3	--	--	--
			02361	00005	----------	C.3.4.3	--	--	--
			02361	00006	----------	C.3.4.3	--	--	--
			02361	00007	----------	C.3.4.3	--	--	--
			02361	00008	----------	C.3.4.3	--	--	--
			02361	00009	----------	C.3.4.4	--	--	--
			02361	00010	----------	C.3.1.2	--	--	--
			02361	00011	----------	C.3.4.3	--	--	--
			02361	00012	----------	C.3.1.2	--	--	--
			02361	00013	----------	C.3.1.2	--	--	--
			02361	00014	----------	C.3.1.2	--	--	--
			02361	00015	----------	C.3.1.2	--	--	--
			02361	00016	----------	C.3.4.3	--	--	--
			02361	00017	----------	C.3.1.2	--	--	--
			02361	00018	----------	C.3.1.2	--	--	--
			02361	00020	----------	C.3.4.3	--	--	--
			02361	00021	----------	C.3.4.3	--	--	--
			02361	00022	----------	C.3.4.3	--	--	--
			02361	00023	----------	C.3.4.3	--	--	--
			02361	00024	----------	C.3.4.3	--	--	--
			02361	00025	----------	C.3.4.3	--	--	--
			02361	00026	----------	C.3.4.3	--	--	--
			02361	00027	----------	C.3.4.3	--	--	--
			02361	00028	----------	C.3.4.3	--	--	--
			02361	00029	----------	C.3.4.3	--	--	--
			02361	00030	----------	C.3.4.3	--	--	--
			02361	00031	----------	C.3.4.3	--	--	--
			02361	00032	----------	C.3.4.3	--	--	--
			02361	00033	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
			02361	00034	----------	C.3.4.3	--	--	--
			02361	00035	----------	C.3.4.3	--	--	--
			02361	00036	----------	C.3.4.3	--	--	--
			02361	00037	----------	C.3.4.3	--	--	--
			02361	00039	----------	C.3.4.3	--	--	--
			02361	00040	----------	C.3.4.3	--	--	--
			02361	00041	----------	C.3.4.3	--	--	--
			02361	00042	----------	C.3.4.3	--	--	--
			02361	00043	----------	C.3.4.3	--	--	--
			02361	00044	----------	C.3.4.3	--	--	--
			02361	00045	----------	C.3.4.3	--	--	--
			02361	00046	----------	C.3.4.3	--	--	--
			02361	00047	----------	C.3.4.3	--	--	--
			02361	00048	----------	C.3.4.3	--	--	--
			02361	00049	----------	C.3.4.3	--	--	--
			02361	00050	----------	C.3.4.3	--	--	--
			02361	00051	----------	C.3.4.3	--	--	--
			02361	00052	----------	C.3.4.3	--	--	--
			02361	00053	----------	C.3.4.3	--	--	--
			02361	00054	----------	C.3.4.3	--	--	--
			02361	00055	----------	C.3.4.3	--	--	--
			02361	00056	----------	C.3.4.3	--	--	--
			02361	00058	----------	C.3.4.4	--	--	--
			02361	00059	----------	C.3.4.4	--	--	--
	Williams, Senator Al	State of Washington	02360	00001	----------	C.2.1.1	--	--	--
			02360	00002	----------	C.3.4.3	--	--	--
			02360	00003	----------	C.3.4.3	--	--	--
			02360	00004	----------	C.3.1.2	--	--	--
			02360	00005	----------	C.3.4.3	--	--	--
			02360	00006	----------	C.3.4.3	--	--	--
			02360	00007	----------	C.3.1.1	--	--	--
			02360	00008	----------	C.3.4.3	--	--	--
			02360	00009	----------	C.3.4.3	--	--	--
	Williams, Senator Al		02731	00001	----------	C.2.1.2	--	--	--
			02731	00002	----------	C.3.1.2	--	--	--
			02731	00003	----------	C.3.4.3	--	--	--
			02731	00004	----------	C.3.4.3	--	--	--
			02731	00005	----------	C.3.4.3	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Washington (continued)									
	Wilson, Callie		02347	00001	----------	C.3.1.2	--	--	--
	Wilusz, Janet		02278	00001	----------	C.3.4.4	--	--	--
	Wolf, Hazel		02376	00001	----------	C.3.1.2	--	--	--
			02376	00002	----------	C.2.3.1	--	--	--
			02376	00003	----------	C.2.1.1	--	--	--
			02376	00004	----------	C.3.1.2	--	--	--
			02376	00005	----------	C.2.3.3	--	--	--
			02376	00006	----------	C.2.4.1	--	--	--
			02376	00007	----------	C.2.8.3	--	--	--
	Wonacott, Steve		02383	00003	----------	C.2.5.2	--	--	--
	Woodhouse, Philip R.		00249	00002	----------	C.2.5.2	--	--	--
	Woods, Carole		02389	00001	----------	C.2.5.2	--	--	--
			02389	00002	----------	C.2.3.1	--	--	--
	Worby, Bernard H.		00204	00001	----------	C.7.3	--	--	--
			00204	00002	----------	C.3.1.2	--	--	--
			00204	00003	----------	C.2.1.1	--	--	--
			00204	00004	----------	C.3.1.2	--	--	--
	Young, John R.		00268	00001	----------	C.3.1.2	--	--	--
			00268	00003	----------	C.3.1.2	--	--	--
			00268	00004	----------	C.3.1.2	--	--	--
	Zepeda, Barbara		02411	00001	----------	C.2.3.1	--	--	--
	Ziegler, Nick J.		00163	00001	----------	C.3.1.2	--	--	--
			00163	00002	----------	C.3.1.2	--	--	--
			00163	00003	----------	C.2.1.1	--	--	--
	Zucker, Dr. Frank		02390	00001	----------	C.2.5.2	--	--	--
Wisconsin									
	Hofmeister, William F.		00290	00001	DC	C.7.2	--	--	--
	Knapp, Mrs. Evelyn C.		00156	00001A	DC	C.7.2	--	--	--
			00156	00001B	DC	C.7.3	--	--	--
Wyoming									
	Ankersmit/Jobson, Karen/Mark		02666	00001	----------	C.3.1.2	--	--	--
			02666	00002	----------	C.3.4.4	--	--	--
			02666	00003	DC	C.5.1	--	--	--
			02666	00004	DC	C.7.2.4	--	--	--

INDEX OF COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENTS FOR THE SALT SITES

STATE	NAME	ORGANIZATION	LETTER NUMBER	COMMENT NUMBER	SITE	CLASSIFICATION FIRST	SECOND	THIRD	FOURTH
Wyoming (continued)									
	Barmore, Jr., William J.		00064	00001	----------	C.3.4.4	--	--	--
			00064	00002	DC	C.7.2	--	--	--
	Carlman, Leonard R.		00524	00001	DC	C.7.3	--	--	--
			00524	00002	DC	C.4.2.2	--	--	--
			00524	00003	----------	C.2.1.1	--	--	--
			00524	00004	----------	C.3.1.2	--	--	--
	Franklin, Dr. Chuck		02665	00001	----------	C.3.4.4	--	--	--
	Gaymer/Webb, Jean Alden/William		02663	00001	----------	C.3.4.4	--	--	--
	Rose, Judy A.		02664	00001	----------	C.3.4.4	--	--	--
			02664	00002	DC	C.3.1.3	--	--	--
			02664	00003	DC	C.7.1.1	--	--	--
	Anonymous		01152	00001	----------	C.3.4.4	--	--	--
	Inglis, Mrs. Terry		02110	00001	DC	C.7.2	--	--	--
			02110	00002	DC	C.5.1	--	--	--
			02110	00003	DC	C.7.2.5	--	--	--
			02110	00004	DC	C.7.2.4	--	--	--
	Knorr, Michele		00608	00001	----------	C.3.4.4	--	--	--
			00608	00002	----------	C.3.4.4	--	--	--

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