Sta 4.(2) S

APR 24 2000

ENGINEERING DATA TRANSMITTAL

1. EDT 629527

2. To: (Receiving Organization)	3. From: (Originating Organization)	4. Related EDT No.:
Distribution	Readiness to Proceed	N/A
5. Proj./Prog./Dept./Div.:	6. Design Authority/Design Agent/Cog. Engr.:	7. Purchase Order No.:
Tank Waste Retrieval and Disposal	R. D. Wojtasek	N/A
8. Originator Remarks:		9. Equip./Component No.:
Document supercedes HNF-2020		N/A
		10. System/Bldg./Facility:
		N/A
		12. Major Assm. Dwg. No.:
		N/A
11. Receiver Remarks:	11A. Design Baseline Document? ☐ Yes ☒ No	13. Permit/Permit Application No.:
		N/A
		14. Required Response Date:
		N/A

15. DATA TRANSMITTED

(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	(F) Approval Designator	(G) Reason for Transmittal	(H) Originator Disposition	(I) Receiver Disposition
1	RPP-6224		0	Evaluation Criteria to Deliverables Crosswalk for the Tank Farm Contractor	N/A	2		

16. KEY

Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)
E, S, Q, D OR N/A (See WHC-CM-3-5, Sec. 12.7)	1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION
(See Approval Designator for required signatures)

(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN
		Design Authority									
		Design Agent		4/22/00							
2	1	Cog. Eng. R.D. Wojtasek	RD Wojtasek								
2	1	Cog. Mgr. C.R. Hutchins	CR Hutchins	4/22/00							
		QA									
		Safety									
		Env.									

18.	19.	20.	21. DOE APPROVAL (if required)
RD Wojtasek RD Wojtasek Signature of EDT Originator Date 4/22/00	RD Wojtasek RD Wojtasek Authorized Representative for Receiving Organization Date 4/22/00	RD Wojtasek for CR Hutchins Design Authority/ Cognizant Manager Date 4/22/00	Ctrl No. N/A ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments

RPP-6224
Revision 0

Evaluation Criteria to Deliverables Crosswalk for the Tank Farm Contractor

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

CH2MHILL
Hanford Group, Inc.
Richland, Washington

Contractor for the U.S. Department of Energy
Office of River Protection under Contract DE-AC06-99RL14047

RPP-6224,
Rev 0.

Evaluation Criteria to Deliverables Crosswalk for the Tank Farm Contractor (supercedes HNF-2020)

CH2M HILL Hanford Group, Inc.

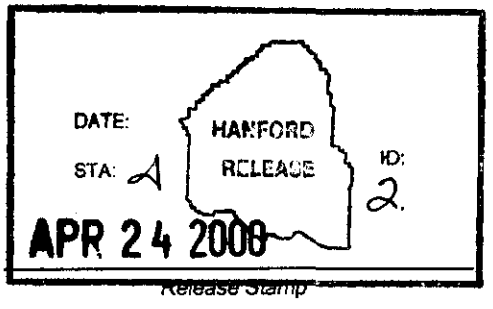
Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 629527 UC: 2030
Org Code: 71300 Charge Code: 108521/AA3
B&R Code: EW3130010 Total Pages: 146

Key Words: TWRS, Retrieval and Disposal Mission, Readiness-To-Proceed

Abstract:
Before the Office of River Protection can authorize proceeding with Phase 1B, the Tank Farm Contractor (TFC) must demonstrate readiness to retrieve and deliver the waste to the privatization contractor and to receive and dispose of the products and by-products returned from treatment. The TFC has organized their plans for providing these support services into the within the River Protection Project.

Release Approval 4/24/00
Date



Release Stamp

Approved For Public Release

RPP-6224
Revision 0

Evaluation Criteria to Deliverables Crosswalk for the Tank Farm Contractor

Prepared by:

R. L. Kingsbury

Date Published
April 2000

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

CH2MHILL
Hanford Group, Inc.

P. O. Box 1500
Richland, Washington

Contractor for the U.S. Department of Energy
Office of River Protection under Contract DE-AC06-99RL14047

This page intentionally left blank.

Document Title: **Evaluation Criteria to Deliverables Crosswalk for the Tank Farm Contractor**

Approved by: R. D. Wojtasek

R. D. Wojtasek, Project Manager
Readiness to Proceed
CH2M HILL Hanford Group, Inc.

4/22/00
Date

CONTENTS

TABLES

GUIDANCE AND REQUIREMENTS TO DELIVERABLES CROSSWALK

LIST OF TERMS

BNFL	BNFL Inc. (Privatization Contractor)
CHG	CH2M HILL Hanford Group, Inc.
CRAD	criteria review assessment document
DOE	U.S. Department of Energy
EIR	External Independent Review (Group)
ICD	interface control document
IHLW	immobilized high-level waste
ILAW	immobilized low-activity waste
IPT	Integrated Product/Process Team
LCAM	life-cycle asset management
LOI	line of inquiry
MOA	Memoranda of Agreement
MP	management plan
ORP	Office of River Protection
POL	policy
PRO	procedure
RPP	River Protection Project
RTP	Readiness to Proceed
TBR	Technical Basis Requirements
TFC	Tank Farm Contractor

This page intentionally left blank.

EVALUATION CRITERIA TO DELIVERABLES CROSSWALK FOR THE TANK FARM CONTRACTOR

1.0 PURPOSE

The purpose of this document is to provide assurance, by use of a crosswalk to CH2M HILL Hanford Group, Inc. (CHG) documentation, that CHG planning and execution documents for the Tank Farm Contractor (TFC) portion of the River Protection Project (RPP) fully and satisfactorily address each of the review criteria that have been proposed by the U.S. Department of Energy (DOE), Office of River Protection (ORP) and the DOE External Independent Review (EIR) Group. In addition, this document provides crosswalks to CHG documents to demonstrate that appropriate planning is in place to meet the requirements of the Privatization Contractor at the interface and to satisfy the minimum core requirements of the DOE O 425.1, *Life Cycle Asset Management* (LCAM).

2.0 REQUIREMENTS CROSSWALKS

2.1 CROSSWALK DEVELOPMENT

Fiscal Year 2000 Performance Incentive No. ORP4.5.1, Revision No. 1, dated February 9, 2000, to the *CH2M HILL Hanford Group, Inc., Contract No. DE-AC06-99RL14047* (ORP 2000), requires that CHG submit a memorandum by April 24, 2000, declaring Readiness to Proceed (RTP) with Phase 1 of the RPP and states that the Contractor's RTP will be assessed for deficiencies using, among other things, the criteria review assessment documents (CRADs) developed by ORP. This document provides several crosswalks to show the trail of documentation that demonstrates compliance with the CRAD evaluation criteria used by ORP and the lines of inquiry (LOI) used by the EIR Group to assess CHG's RTP.

Beginning with DOE O 430.1 (LCAM), the ORP has developed a series of CRADs that tailor the LCAM requirements to the RPP mission for use in conducting the RTP evaluation. The DOE O 430.1 addresses the preconceptual-through-turnover phases of a project life cycle. The DOE O 425.1, *Startup and Restart of Nuclear Facilities*, and the 20 associated minimum core requirements for startup and restart address the operations and maintenance phase of a project life cycle. Table 1 identifies the CHG documentation that demonstrates compliance with the CRAD expectations. CRAD criteria, subcriteria, and expectations are shown on the left side of Table 1. The documents that demonstrate satisfaction of each of the CRAD expectations are listed across the top of the table. It should be noted that many of the documents listed existed before this RTP effort and were not created or modified for RTP. Some of the documents listed are generic representations of the documents used to execute the TFC responsibilities. Those documents are defined as follows:

- Level 0 Logics – The highest level logic diagram used to illustrate the sequence of major activities in the RPP.
- Level 1 Logics – The second-level logic diagram used to illustrate the sequence of activities required to deliver each batch of feed to BNFL Inc. (BNFL).

- MOAs – Memoranda of Agreement (MOA) used to define the services that will be provided to CHG by outside contractors such as Fluor Hanford, Inc.
- TBRs – Technical Basis Requirements (TBR) used to describe the work scope, resources, and schedule requirements for a defined unit of work scope.
- ICDs - Interface Control Documents (ICDs) used to define the interface requirements between BNFL and CHG.
- IPTs – Integrated Product/Process Teams (IPT) used by ORP to identify and resolve interface issues between BNFL and CHG.
- HNF-PROs, POLs, MPs, and RPP-PROs – The Hanford Site or RPP procedures (PROs), policies (POLs), and management plans (MPs).
- Tri-Party Agreement – The agreement between the DOE, the U.S. Environmental Protection Agency, and the State of Washington on the timing and extent of cleanup of the Hanford Site (*Hanford Federal Facility Agreement and Consent Order* [Ecology et al. 1996]).
- Project Execution/Management Plans – The project-specific versions of the project execution plans or project management plans.
- Project Systems Engineering Documents – Systems engineering documents used at the project level.

An example table is provided to illustrate the use of the tables in this crosswalk.

CRAD Number	CRAD Expectation	Configuration Management Plan	Programmatic Baseline Summary	Level 0 Logics	TBRs
4.1.1.2	CHG has a system to ensure that changes to the master schedule are passed down to and integrated with the intermediate schedule and similarly to the detail schedules.	X			X
4.1.2.1	CHG has updated the schedules to identify the constraints and decision points for work accomplishment, to provide critical path visibility, and to depict progress against the schedule baseline.		X	X	
4.1.3.1	The schedule activities are logically driven to determine the critical path.		X	X	X

Example Table

The table is used as follows:

- To identify the CRADs that are addressed by each document, look vertically down the columns for the X's. For example, this table shows that the Programmatic Baseline Summary addresses some aspect of CRADs 4.1.2.1 and 4.1.3.1, and the TBRs address some aspects of CRADs 4.1.1.2 and 4.1.3.1.

- To identify the documents that, taken together, satisfy any individual CRAD, look horizontally across the line with the CRAD in it. For example, this table shows that CRAD 4.1.1.2 is satisfied by the Configuration Management Plan and the TBRs, and that CRAD 4.1.3.1 is satisfied by the Programmatic Baseline Summary, the Level 0 Logics, and the TBRs. Many of the documents identified may answer only a small part of the CRAD or provide reference to the document that addresses the subject in more detail. It should be kept in mind that this illustration is only a sample of the crosswalk and does not provide complete answers for these CRADs.

In those cases where individual documents that demonstrate compliance are not listed across the top of the table, the documents are listed in the additional documents column on the right. Note that, although some of the CRAD expectations seem to be written to apply only to ORP, CHG recognizes that the expectation also could apply to CHG. Therefore, Table 1 identifies the CHG documents that demonstrate compliance with those expectations. Table 2 identifies those documents that demonstrate compliance with the minimum core requirements of DOE O 425.1.

In addition to the core requirements in the LCAM and DOE O 425.1, a series of ICDs between CHG and BNFL identify the actions that CHG must take to support the Privatization Contractor facility development and operation. Table 3 provides a crosswalk between the ICD requirements and the CHG documentation that supports compliance with those requirements.

Finally, DOE Headquarters has chartered an EIR Group to conduct a review of the technical, contractual, financial, and regulatory aspects of RPP to evaluate the readiness of the RPP to proceed with the Phase 1, Part B-2 decision. The EIR Group is conducting its on-site review in two parts. The EIR Group's Task A, which has been completed, determined the readiness of RPP to undergo the detailed review in Task B and developed the detailed LOIs and the plan for the detailed review. Task B will comprise the detailed review. The final product will be an independent report to DOE Headquarters on the readiness of the RPP, including BNFL and CHG, to proceed with the Phase 1, Part B-2 decision. Table 4 provides a crosswalk among the LOIs that will be used by the EIR Group in Task B of their review, the CRADs developed by the ORP that address each LOI, and the CHG documents that provide evidence that CHG satisfies each of the LOIs. Note that, although some of the LOIs are written to apply only to ORP or BNFL, CHG recognizes that the LOIs also could apply to CHG. Therefore, Table 4 identifies the CHG documents that demonstrate compliance with those LOIs.

2.2 CROSSWALK VALIDATION

The CRAD and LOI crosswalks, Tables 1 and 4, were developed by consulting with knowledgeable personnel involved in the various disciplines and were reviewed by the CHG RTP management team. A final validation of the resulting crosswalks was performed by having

the authors of each of the documents listed in the crosswalks conduct vertical and horizontal reviews. For the vertical reviews, the document authors checked each location where their documents were cited as evidence of satisfying a CRAD expectation or an LOI to ensure that the documents addressed that item. For the horizontal review, one document author was assigned for each CRAD expectation and each LOI and assigned responsibility for conducting a review among all of the authors of the documents cited in that horizontal line to ensure that the documents fully addressed the expectation or LOI and that the documents were consistent with each other.

3.0 REFERENCES

3.1 U.S. DEPARTMENT OF ENERGY ORDERS

DOE O 425.1, 1998, *Startup and Restart of Nuclear Facilities,* U.S. Department of Energy, Washington, D.C.

DOE O 430.1A, 1998, *Life Cycle Asset Management,* U.S. Department of Energy, Washington, D.C.

3.2 U.S. DEPARTMENT OF ENERGY CONTRACTS

ORP, 1998, *TWRS Privatization Contract, DE-AC06-RL13308,* U.S. Department of Energy, Richland Operations Office, Richland, Washington.

ORP, 1999, *CH2M HILL Hanford Group, Inc., Contract No. DE-AC06-99RL14047,* U.S. Department of Energy, Office of River Protection, Richland, Washington.

3.3 INTERFACE CONTROL DOCUMENTS

BNFL, 1999, *Interface Control Document ICD-01 Between DOE and BNFL Inc. for Raw Water,* BNFL-5193-ID-01, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-02 Between DOE and BNFL Inc. for Potable Water,* BNFL-5193-ID-02, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-03 Between DOE and BNFL Inc. for Radioactive Solid Waste,* BNFL-5193-ID-03, Rev. 5, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-04 Between DOE and BNFL Inc. for Dangerous Waste,* BNFL-5193-ID-04, Rev. 3, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-05 Between DOE and BNFL Inc. for Nonradioactive, Nondangerous Liquid Effluents,* BNFL-5193-ID-05, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-06 Between DOE and BNFL Inc. for Radioactive, Dangerous Liquid Effluents*, BNFL-5193-ID-06, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-07 Between DOE and BNFL Inc. for Nondangerous Solid Wastes*, BNFL-5193-ID-07, Rev. 3, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-08 Between DOE and BNFL Inc. for Liquid Sanitary Wastes*, BNFL-5193-ID-08, Rev. 3, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-09 Between DOE and BNFL Inc. for Land for Siting*, BNFL-5193-ID-09, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-10 Between DOE and BNFL Inc. for Deactivated Facility and Site*, BNFL-5193-ID-10, Rev. 3, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-11 Between DOE and BNFL Inc. for Electricity*, BNFL-5193-ID-11, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-12 Between DOE and BNFL Inc. for Roads*, BNFL-5193-ID-12, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-14 Between DOE and BNFL Inc. for Immobilized High-Level Waste*, BNFL-5193-ID-14, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-15 Between DOE and BNFL Inc. for Immobilized Low-Activity Waste*, BNFL-5193-ID-15, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-16 Between DOE and BNFL Inc. for Entrained Solids*, BNFL-5193-ID-16, Rev. 3, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-19 Between DOE and BNFL Inc. for Low-Activity Waste Feed*, BNFL-5193-ID-19, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-20 Between DOE and BNFL Inc. for High-Level Waste Feed*, BNFL-5193-ID-20, Rev. 4, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-21 Between DOE and BNFL Inc. for Waste Feed Tank*, BNFL-5193-ID-21, Rev. 3, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-22 Between DOE and BNFL Inc. for Air Emissions*, BNFL-5193-ID-22, Rev. 3, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-024 Between DOE and BNFL Inc. for Pretreated Low-Activity Waste*, BNFL-5193-ID-24, Rev. 3, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-25 Between DOE and BNFL Inc. for Emergency Response*, BNFL-5193-ID-25, Rev. 3, BNFL Inc., Richland, Washington.

BNFL, 1999, *Interface Control Document ICD-26 Between DOE and BNFL Inc. for Permits*, BNFL-5193-ID-26, Rev. 3, BNFL Inc., Richland, Washington.

3.4 CH2M HILL HANFORD GROUP, INC., DOCUMENTATION

Bosley, J. W., 2000, *Human Resources Staffing Plan for the Tank Farm Contractor*, RPP-6114, Rev. 0, CH2M HILL Hanford Group, Inc., Richland, Washington.

Burbank, D. A., 1999, *River Protection Project Immobilized Low-Activity Waste Disposal Plan*, HNF-1517, Rev. 1, Lockheed Martin Hanford Corporation for Fluor Daniel Hanford, Inc., Richland, Washington.

Calmus, R. B., 1999, *River Protection Project Immobilized High-Level Waste Interim Storage Plan*, HNF-1751, Rev. 1, Lockheed Martin Hanford Corporation for Fluor Daniel Hanford, Inc., Richland, Washington.

CHG, 2000, *RPP Administration,* HNF-IP-0842, CH2M HILL Hanford Group, Inc., Richland, Washington.

- "Engineering," Vol. IV, "Risk Management," Sec. 2.6
- "Safety," Vol. IX
- "Quality Assurance," Vol. XI.

Cusack, J. O, 2000, *Tank Farm Contractor, Phase 1, Feed Delivery, Storage, and Disposal Mission Summary for 2006 Hot Start*, RPP-5742, Rev. 1, CH2M HILL Hanford Group, Inc., Richland, Washington.

Cusack, J. O., 2000, *Tank Farm Contractor, Phase 1, Feed Delivery, Storage, and Disposal Mission Summary for 2006 Hot Start, Extended Order*, RPP-5836, Rev. 1, CH2M HILL Hanford Group, Inc., Richland, Washington.

Diediker, J. A., 2000, *Programmatic Baseline Summary for Phase I Privatization for the Tank Farm Contractor*, HNF-1946, Rev. 2, CH2M HILL Hanford Group, Inc., Richland, Washington.

Ecology, EPA, and DOE, 1996, *Hanford Federal Facility Agreement and Consent Order*, 2 vols., Washington State Department of Ecology, Olympia, Washington; U.S. Environmental Protection Agency, Washington, D.C.; and U.S. Department of Energy, Washington, D.C.

Halverson, T. G., 2000, *Draft Project Execution Plan for the Tank Farm Contractor*, RPP-6017, Rev. 0, CH2M HILL Hanford Group, Inc., Richland, Washington.

Harris, J. P. III, 2000, *River Protection Project Double-Shell Tank Waste Retrieval Authorization Basis Amendment Task Plan,* HNF-1722, Rev. 2, CH2M HILL Hanford Group, Inc., Richland, Washington.

Honeyman, J. O., and J. A. Voogd, 2000, *Memorandum of Readiness to Proceed with Phase 1 Privatization for the Tank Farm Contractor*, RPP-6118, Rev. 0, CH2M HILL Hanford Group, Inc., Richland, Washington.

Kirkbride, R. A., 2000, *Tank Farm Contractor Operation and Utilization Plan*, HNF-SD-WM-SP-012, Rev. 2, CH2M HILL Hanford Group, Inc., Richland, Washington.

LMHC, 1999, *River Protection Project FY 2000 Multi-Year Work Plan Summary*, RPP-5044, Rev. 0, Lockheed Martin Hanford Corporation, Richland, Washington.

Milliken, N., 1999, *Tank Waste Remediation System Standards/Requirements Identification Document*, HNF-SD-MP-SRID-001, Rev. 2, Lockheed Martin Hanford Corporation, Richland, Washington.

ORP, 2000, *River Protection Project Mission Analysis Report*, DOE/ORP-2000-10, Rev. 0, U.S. Department of Energy, Office of River Protection, Richland, Washington.

O'Toole, S. M., 2000, *Systems Engineering Management Plan for the Tank Farm Contractor*, HNF-SD-WM-SEMP-002, Rev. 2, CH2M HILL Hanford Group, Inc., Richland, Washington.

Powell, P.A., 2000, *Environmental Program Description for the Tank Farm Contractor*, HNF-1773, Rev. 3, CH2M HILL Hanford Group, Inc., Richland, Washington.

Powell, P.A., 2000, *Retrieval and Disposal Waste Feed Delivery Plan for the Tank Farm Contractor*, HNF-1881, Rev. 1, CH2M HILL Hanford Group, Inc., Richland, Washington.

Raymond, R. E., 1998, *Tank Waste Remediation System Technical Baseline Summary Description*, HNF-2016, Rev. 0, Lockheed Martin Hanford Corporation for Fluor Daniel Hanford, Inc., Richland, Washington.

Rifaey, S. H., 1998, *Tank Waste Remediation System Engineering Plan*, HNF-1947, Rev. 0, Lockheed Martin Hanford Corporation for Fluor Daniel Hanford, Inc., Richland, Washington.

RL, 1996, *Hanford Strategic Plan*, DOE/RL 96-92, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

Root, R. W., Jr., and R. D. Potter, 1998, *Tank Waste Remediation System Retrieval and Disposal Mission Infrastructure Plan*, HNF-1882, Rev. 0, Lockheed Martin Hanford Corporation for Fluor Daniel Hanford, Inc., Richland, Washington.

Tedeschi, A. R., 2000, *Technical Baseline Summary Description for the Tank Farm Contractor*, HNF-1901, Rev. 2, CH2M HILL Hanford Group, Inc., Richland, Washington.

Weir, W. R., 2000, *Configuration Management Plan for the Tank Farm Contractor*, HNF-1900, Rev. 1, CH2M HILL Hanford Group Inc., Richland, Washington.

This page intentionally left blank.

TABLES

GUIDANCE AND REQUIREMENTS TO DELIVERABLES CROSSWALK

Table I - CRAD
Requirements Crosswalk

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 1.0 - Project Management (4 Sheets)

Criterion Number	CRAD 1.0 - PROJECT MANAGEMENT Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5617	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
1.0	Project Management																																										
1.1	Project Work Scope - Do the appropriate project plans, systems and processes exist to describe, baseline and guide the project?																																										
1.1.1	Is the RPP work scope reflective of current/valid mission requirements? (CRAD Area 2.0 includes detailed considerations related to mission goals and objectives).	1.1.1.1	The work scope planned for execution reflects current mission goals and objectives.	x	x																x	x	x				x															
		1.1.1.2	There is process that ensures the work scope reflects current mission goals and objectives.	x		x																																				HNF-IP-0842 - Vol VIII, Sec 1.1, Baseline Change Control Vol X, Sec 3.8, Integrated Planning Process
1.1.2	Is the project work scope organized in a logical work breakdown structure (WBS)? (CRAD Area 3.0 includes considerations related to technical scope).	1.1.2.1	The WBS structure is organized so the work scope can be described as a summation of subdivided elements.		x																x												RPP-PRO-518									
		1.1.2.2	The WBS structure is organized so that cost and schedule performance can be effectively tracked.		x																x																					
1.1.3	Is the project work scope reflected in a project baseline that includes schedule and cost? (CRAD Areas 4.0 and 5.0 include detailed considerations related to schedule and cost, respectively)	1.1.3.1	The RPP baseline includes scope, cost and schedule for all work by contractors and organizations																		x																					
1.2	Performance Management - Is there a performance management system in place to effectively improve performance of the project?																																									
1.2.1	Are performance incentives defined so as to create quantifiable benefits to the project in terms of cost, time and risk reduction?	1.2.1.1	ORP has established performance incentives for its contractors that reduce project cost, time and risk.																																							DOE Contract with CHG, River Protection Project, DE-AC06-99RL14047
		1.2.1.2	River Protection Project Incentives are structured to support and benefit from the PHMC incentives.																																							DOE Contract with CHG, River Protection Project, DE-AC06-99RL14047
1.2.2	Are there systems, methods, and organizations to cause improved performance in terms of cost and schedule?	1.2.2.1	The ORP contractors have an incentive to reduce costs and improve project performance.																																							DOE Contract with CHG, River Protection Project, DE-AC06-99RL14047
		1.2.2.2	ORP can capture improvements by changes to its planned schedule, cost, and scope.			Vol VIII, Sec. 1.1																																				DOE Contract with CHG, River Protection Project, DE-AC06-99RL14047
1.3	Organization and Staffing-Can the Office of River Protection organize and staff to manage the River Protection Project during Phase I B-2?																																									
1.3.1	Have staffing requirements for the ORP been defined and filled with skilled and experienced people?	1.3.1.1	Present staff is sufficient to begin Phase 1B-2.																																							
		1.3.1.2	The ORP staff is organized to manage the project.		x																																					
		1.3.1.3	ORP can change its staff mix and skill as the needs of the project change.																																							
		1.3.1.4	Key positions (i.e., RPP Project Manager, Deputy Administration, Deputy Manager Technical, Manager Operations, Manager Systems Acquisition, ESH&Q Manager, Project Integration Manager) have been defined and filled by qualified staff.			x																													x							DOE Contract with CHG, River Protection Project, DE-AC06-99RL14047 HNF-IP-0842, Vol. I, Sec. 3.a, Charters
1.4	Change Control-Has the Office of River Protection established the change control process necessary to successfully manage changes to the River Protection Project baseline?																																								

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 1.0 - Project Management (4 Sheets)

Criterion Number	CRAD 1.0 - PROJECT MANAGEMENT Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-8017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IWLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-8114	Configuration Mgmt. Plan HNF-1906	Engineering Plan HNF-1907	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1846	Level 0 Logics	Level I Logics	AOA's and Trade Studies	RPP, FY2000 WWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-8113	Memo of RTP w/Phase 1, RPP-8118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5743 & -5835	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
1.4.1	Is there a well-defined process for managing changes to the project baseline – does the process address the review, evaluation of impacts, approval, integration, and dispositioning of changes?	1.4.1.1	A well-defined process for managing changes to the project baseline has been established and the process includes the review, evaluation of impacts, approval, integration, and dispositioning of changes.			Vol VIII, Sec 1.1												x														x										
1.4.2	Does the process address scope, schedule, and cost changes to the Project baseline?	1.4.2.1	The change control process addresses scope, schedule, and cost changes to the Project's baseline.			x												x																							HNF-IP-0842, Vol VIII, Sec. 1.1
1.4.3	Does the process address performing contractor (i.e., BNFL, CHG) contract changes to the Project baseline?	1.4.3.1	The process addresses performing contractor (i.e., BNFL, CHG) contract changes to the Project baseline.			x												x																							HNF-IP-0842, Vol VIII, Sec. 1.1
1.4.4	Does the process link/integrate scope, schedule, cost and contract changes?	1.4.4.1	The process links/integrates scope, schedule, cost and contract changes.			x												x																							
1.4.5	Has a Change Control Plan or Procedure documenting the Project's change control process been established for the River Protection Project?	1.4.5.1	A Change Control Plan or Procedure documenting the Project's change control process has been established for the River Protection Project.			x												x																							HNF-IP-0842, Vol VIII, Sec. 1.1
1.4.6	Have change control approval thresholds and authorities been established?	1.4.6.1	Change control approval thresholds and authorities have been established.			x												x																							HNF-IP-0842, Vol VIII, Sec. 1.1
1.4.7	Have key Project staff been trained on the Change Control Plan or Procedure?	1.4.7.1	Key Project staff have been trained on the Change Control Plan or Procedure.															x														x									HNF-IP-0842, Vol VIII, Sec. 1.1 Training Records will reflect completed training
1.4.8	Is the change control process configured in a way that that promotes timely processing of changes to the Project baseline?	1.4.8.1	The change process is designed to promote timely processing of changes to the Project timely changes to the Project baseline.			x												x																							HNF-IP-0842, Vol VIII, Sec. 1.1
1.4.9	Have metrics been established for the monitoring and improvement of the performance of the change process?	1.4.9.1	Metrics for monitoring of the performance of the change process have been established and are being used to improve performance.											x				x																							Metrics are monitored by the CHG Planning and Integration organization.
1.5	**Project Interfaces** - Has the Office of River Protection established the interfaces needed to successfully accomplish Phase I B-2 of the River Protection Project?																																								
1.5.1	Have interface requirements been defined and interface commitments (i.e., ICDs, IMOUs) been executed between the parties?	1.5.1.1	The following key interfaces have been identified – stakeholder, regulator, DOE-RL, DOE-RU, DOE-HQ, OCRWM.										x												x		x				x	x						x		-Tank Farm Interface Summary of the Interface Control Documents (ICDs) (HNF-4500)
		1.5.1.2	For each interface, interface requirements and commitments of the parties have been defined and documented in the interface agreement.			Vol IV, Sec 2.8							x												x		x				x							x		-ICDs in place - HNF-4489, HNF-3404, HNF-3394, HNF-4482, HNF-4483, HNF-4486, HNF-3339 -ICDs under review - HNF-4488, HNF-4490, HNF-3396 -Four more ICDs have been identified and are scheduled for completion by May 2000.
1.5.2	Have interface points of contact and roles/responsibilities been established?	1.5.2.1	For each interface, interface points of contact have been established and documented in the interface agreement.																						x		x													-ICDs in place - HNF-4489, HNF-3404, HNF-3394, HNF-4482, HNF-4483, HNF-4486, HNF-3339 -ICDs under review - HNF-4488, HNF-4490, HNF-3396 -Four more ICDs have been identified and are scheduled for completion by May 2000.
		1.5.2.2	For each interface, interface roles/responsibilities have been defined and documented in the interface agreement.																						x		x													
		1.5.2.3	For each interface, an interface agreement containing all necessary elements has been prepared and signed by all the parties.																						x		x													ICDs are not signed by CHG
1.5.3	Have interfacing mechanisms/vehicles (e.g., IPTs) been established?	1.5.3.1	For each interface, the mechanism(s)/vehicle(s) for interfacing has been established																						x		x													
		1.5.3.2	For each interface, the mechanism(s)/vehicle(s) for interfacing are working.																						x		x												50	
1.5.4	Have the interface plans/schedules been developed, integrated into the project schedule, and implemented (or under implementations)?	1.5.4.1	For each interface, a plan/schedule of the interface requirements has been developed, documented in the interface agreement and incorporated into the project schedule.																		x				x		x												x	

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 1.0 - Project Management (4 Sheets)

Criterion Number	CRAD 1.0 - PROJECT MANAGEMENT Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1892	MLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1847	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	ADA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5938	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
1.6	**Project Management Plan:** Does ORP have a plan to describe, baseline, and guide the RPP?																																										
1.6.1	Does the ORP have a plan for managing the life-cycle mission and all components of the River Protection Project? (Interface with 2.0 CRAD)	1.6.1.1	The plan is for the entire life cycle of the project mission, with an increased level of planning detail in the near term.		X																																				
		1.6.1.2	The plan is inclusive of the work by all project participants, including contractors and agencies.		X																																				
1.6.2	Does the project plan indicate how the project scope, schedule and cost will be managed and controlled? (Interface with 3.0, 4.0, and 5.0)	1.6.2.1	The plan includes an integrated baseline for all project scope, schedule and cost for all the required work.		X																X																				
		1.6.2.2	The project baseline schedule identifies significant logic ties and a critical path.		X																X																				
		1.6.2.3	The baseline schedule identifies critical milestones and decision points important to the success of the project		X																X																				
		1.6.2.4	A project work breakdown structure (WBS) is included, and is the basis for the schedule and performance reporting.		X																X																				
		1.6.2.5	A project performance measurement/management system is described in the plan		X																																				
		1.6.2.6	Project budget request plans are supported by the project cost baseline.																		X						X											X				
1.6.3	Does the plan address a strategy for obtaining funding, executing procurements, obtaining required permits, and managing quality, safety, risk and communications? (Interface with CRADS 6.0, 7.0, 8.0, and 9.0)	1.6.3.1	The plan includes a strategy for obtaining necessary funds.																																				X			
		1.6.3.2	The plan includes a procurement strategy.		X																																					
		1.6.3.3	A permitting strategy is identified in the plan.											X																									X				
		1.6.3.4	The process for managing quality, safety, risk, and communications is addressed in the plan.		X	Vol X, Sec 3.8				X			X	X																				X					X				
1.6.4	Does the plan describe how the project will be managed and organized and assign responsibilities for its key functions? (detailed in CRAD 1.3)	1.6.4.1	The plan describes the project management approach.		X																																				
		1.6.4.2	The plan describes the organization and the critical roles and assigns responsibilities.		X																																	X				
		1.6.4.3	Project internal and external interfaces are identified in the plan.		X																																	X				
	1.6.5 Does it describe how it will manage its internal and external interfaces? (detailed in CRAD 1.5)	1.6.5.1	An interface management process is described in the plan.		X																																				
1.7	**Contract Management** Has the Office of River Protection established the contract management plans, key personnel, and key procedures necessary to successfully manage the BNFL and CHG contracts under the River Protection Project?																																									N/A to CHG
1.7.1	Have Contract Management Plans for the CHG and BNFL contracts been developed?	1.7.1.1	Contract Management Plans for the CHG and BNFL contracts have been developed.																																								N/A to CHG
1.7.2	Have key contract management procedures been developed (e.g., procedures for monitoring and reporting contract performance, procedures for DOE and Contractor-driven contract changes and equitable adjustments, procedures for dispute resolutions, and procedures for tracking, reviewing, and approving contract deliverables, etc.)?	1.7.2.1	Key contract management procedures have been developed.																																				X				N/A to CHG

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 1.0 - Project Management (4 Sheets)

	CRAD 1.0 - PROJECT MANAGEMENT	DOE Expectation		Implementation Document																																						
Criterion Number	Criterion/Specific Consideration	Number	Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt. Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
1.7.3	Have key ORP/Fed contract management personnel been identified for each contract – Contracting Officers (CO), Contracting Officer's Representatives (CORs), and Contract Specialists (CS)?	1.7.3.1	Key ORP/Fed contract management personnel have been identified for each contract.																																							N/A to CHG
1.7.4	Do the key personnel have the appropriate knowledge, experience, and qualifications to manage/administer the contracts?	1.7.4.1	Key personnel have the appropriate knowledge, experience, qualifications to manage the contracts.																																							N/A to CHG
1.7.5	Have key personnel and other staff been trained on the key features of the contracts and the contract management plans and procedures?	1.7.5.1	Key personnel and other staff have been trained on the key features of the contracts and contract management plans and procedures.																													X								N/A to CHG
1.7.6	Are mechanisms in place for regular interfacing/communication between ORP and contractor contract management staff?	1.7.6.1	Mechanisms are in place for regular interfacing/communication between ORP and contractor contract management staff.																																					DOE Contract with CHG, River Protection Project, DE-AC06-99RL14047
1.7.7	Are mechanisms in place for regular interfacing/communication between ORP contracting, technical, business/finance staff?	1.7.7.1	Mechanisms are in place for regular interfacing/communication between ORP contracting, technical, business/finance staff.																													X								N/A to CHG
1.7.8	Have contract files been developed and are they co-located with the contracting personnel?	1.7.8.1	Contract files have been developed and are co-located with contracting personnel.																																					N/A to CHG
1.8	**Requirements Management** – Is ORP ready to adequately manage the requirements of the River Protection Project (RPP)?																																									
1.8.1	Are project requirements defined and compiled/documented?	1.8.1.1	Project Requirements are defined and documented.		X										X					X							X	X						X				X				Level 1&2 specs for validated projects Functional Design Criteria Design Requirements documents
		1.8.1.2	Project Requirements are trackable, verifiable, and structured to allow for a determination of satisfactory completion.												X												X											X				Level 1&2 specs for validated projects Functional Design Criteria Design Requirements documents
1.8.2	Is there a well-defined process for managing the body of requirements inherent to this complex project, including programmatic, technical and regulatory requirements?	1.8.2.1	A well-defined process for managing the requirements is in place that covers the variety of requirements for the RPP.												X												X															
		1.8.2.2	Methods are in place for integrating requirements across the design, construction, and operational aspects of the RPP.												X												X							X								
1.8.3	Are project requirements under a configuration management and change control plan? Is there a document hierarchy?	1.8.3.1	Project requirements are under configuration management, i.e., contained within the Project Management Plan, and under Change Control via a prescribed Change Control procedure.			Vol VIII, Sec 1.1									X			X									X							X								
1.8.4	Are project requirements linked/traceable to the performing Contractors (i.e., BNFL and CHG)?	1.8.4.1	Project requirements are disseminated to the respective performing Contractors within their respective Contracts.		X									X	X												X							X								

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 2.0 - Project Mission (1 Sheet)

Criterion Number	CRAD 2.0 - PROJECT MISSION Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1000	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level 1 Logics	AQA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBR's	ICDs	IPT's	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6178	HNF PRDs, POLs & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5938	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
2.0	Mission/Goal/Program																																								
2.1	DOE Strategic Plan - Does the project continue to support and remain consistent with DOE Strategic Plan goals and objectives (CD-2)?																																								
2.1.1	Does the River Protection Project continue to support the DOE Strategic Plan?	2.1.1.1	The goals and objectives of the River Protection Project are clearly stated.	x																																x					
		2.1.1.2	Clear alignment and linkage exist between the River Protection Project goals and objectives and the DOE Strategic Plan.	x																																x					N/A to CHG
		2.1.1.3	Successful accomplishment of the planned River Protection Project will advance the DOE Strategic Plan	x																																x					N/A to CHG
2.2	Program Strategic Plan - – Does the Project remain integrated with goals and objectives established in the Program Strategic Plan (CD-2)?																																								
2.2.1	Will new technical information or increased understanding be factored, by plan, into the project plans/goals?	2.2.1.1	Documentation exists that describes how impacts/changes resulting from new technical information/increased understanding will be factored into the RPP plans/goals?			Vol VIII, Sec 1.1										x				x				x																	HNF-IP-0842, Vol VIII, Sec 1.1 - Baseline Change Control
2.2.2	Does the project continue to support the Program Office's Strategic Plan?	2.2.2.1	Clear alignment and linkage exists between project goals and objectives and the Program Office Strategic Plan ("Accelerating Cleanup; Paths to Closure").	x	x																															x					
2.2.3	Do the project outcomes align/link to actions/ activities identified by the Program Office Plan?	2.2.3.1	Definitive project outcomes align/support goals and objectives established within the Program Office Strategic Plan.		x																	x	x													x	x				ROD for TWRS, 62 FR 8693
2.3	Involvement of Related Agencies - Have identifiable outside requirements and/or constraints that could affect project mission and benefits been evaluated for applicability to the design / execution (CD-2)?																																								
2.3.1	Have all related outside organizations been identified?	2.3.1.1	All related outside organizations have been identified and documented.		x							x																													
2.3.2	Have working relations been established with related outside organizations?	2.3.2.1	Documentation exists that demonstrates the establishment of working relations with related outside organizations.									x																									x					
2.3.3	Has the potential impact of related outside organizations been established?	2.3.3.1	The impact of related outside organizations to RPP has been established and documented.									x																				x					x					Hanford Advisory Board
2.3.4	Are potential problems with related outside organizations being resolved and documented?	2.3.4.1	Potential problems with outside related organizations are being resolved and documented.									x																									x					
2.4	Site Location– Has the site selection process been completed?																																								
2.4.1	Has the selection process been completed for location of the Waste Processing Plant?	2.4.1.1	A specific Waste Processing Plant site has been chosen.																												ICD-09											DOE contract with BNFL, TWRS Privatization, Cont. No. DE-AC06-96RL13308 -"TWRS Complex Site Evaluation Report", WHC-SD-WM-SE-021, 1995 -"TWRS Privatization Phase I Site Evaluation Report", WHC-SD-WM-SE-023, 1995
		2.4.1.2	-Documentation exists that demonstrates the correctness of the Waste Processing Plant site selection choice. -The documentation includes consideration of the impacts of construction, operation, and disposal.																										ICD-09											-"TWRS Complex Site Evaluation Report", WHC-SD-WM-SE-021, 1995 -"TWRS Privatization Phase I Site Evaluation Report", WHC-SD-WM-SE-023, 1995

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 3.0 - Project Work Scope (4 Sheets)

| Criterion Number | CRAD 3.0 - PROJECT WORK SCOPE | DOE Expectation | | Implementation Document | | |

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 3.0 - Project Work Scope (4 Sheets)

Criterion Number	CRAD 3.0 - PROJECT WORK SCOPE Criterion/Specific Consideration	DOE Expectation Number	Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1681	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1682	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.5	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PRDs, POLs, & MPs, RPP PRDs	TH-Party Agreement	SMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
3.2.6	Has CHG provided a conceptual feed delivery design that is flexible enough to respond to changing feed needs (i.e. changes in tank sequence and envelopes)?	3.2.6.1	The conceptual design for the feed delivery system is flexible enough to provide feed from 4 envelopes from tanks within the expected minimum order quantity within 30 days of notification after May 2006.				X																X					ICDs 19,20											X	Level 1 & 2 specifications for Validation projects
3.3	**Detail Design** – Has Detailed Design produced the final technical products that are required to support the physical construction?																																								
3.3.1	Have construction packages and bid documents been prepared and coordinated with all parties affected by the project?	3.3.1.1	The construction packages which include certified drawings and procurement specifications, and bid documents complies with requirements of contracts (including CHG and BNFL contracts)																								X	X							X			X		-DOE Critical Design Review for detail design on each validated project -Review Comment Records (RCRs)
3.3.2	Are the construction packages prepared to include an adequate work scope for execution?	3.3.2.1	In addition to the physical and functional description of the facilities, the scope of work also includes a description of the services that are to be provided.					X				X															X			X					X		X		X		-Construction Specifications and Startup Test Plans for Validated Projects -DOE Critical Design Reviews for Validated Projects -Conceptual Design Reports -Definitive Design Documents -W-211 - June 1999 project estimates.
3.3.3	Does the construction packages demonstrate flexibility, robustness and efficiency in the design concepts chosen?	3.3.3.1	Consistent alternative evaluations and decision making structure is maintained through the life cycle of the project.					X				X													X	X		X								X		X		-Definitive Design Reports -Definitive Design Documents -Construction Specifications -RAM Analyses -Conceptual Design Reports
		3.3.3.2	The construction packages supports delivery of four feed envelops within 30 days of BNFL's notification after May 30, 2006.																		X						ICDs 19 & 20								X	X					
3.3.4	Will the construction packages support procurement and schedule constraints?	3.3.4.1	The level of construction packages development is sufficient to support procurement in support of construction.					X				X															X			X								X			-Definitive Design Documents. -Procurements Specifications
3.3.5	Will the construction packages support environmental permitting requirements?	3.3.5.1	The construction packages are compliant with environmental regulations and permitting conditions					X				X	X														X								X		X		X		-Design Requirements Documents -Definitive Design Documents -Notice of Construction Permits -Environmental Permits and Approvals Plan
3.3.6	Has CHG defined construction work packages, which will allow timely initiation of construction?	3.3.6.1	CHG is on schedule to complete all necessary documentation and permits to initiate site preparation and construction.					X				X										X					X											X			-Completed Title II designs and NOCs -Design Requirements Documents
		3.3.6.2	CHG has prepared construction work package for initial items requiring procurement.																				X				X														-Definitive Design Documents. -Purchase Requisitions
3.4	**Value Engineering** – Is the contractor performing value engineering studies to reduce cost and improve reliability of the feed delivery system? Are these studies effective?																																								

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 3.0 - Project Work Scope (4 Sheets)

Criterion Number	CRAD 3.0 - PROJECT WORK SCOPE Criterion/Specific Consideration	DOE Expectation Number	Narrative	Implementation Document Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1847	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP wPhase 1, RPP-6118	HNF PROA, POLs & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012 Additional Documents
3.4.1	Is CHG identifying and conducting value engineering (e.g., Alternative Generation Analysis (AGA) and Trade Studies) which support the development of a viable feed delivery system?	3.4.1.1	Has value engineering provided sufficient information to adequately support the required decisions?																					x																-AGA for Low Activity Waste Retrieval Strategy (HNF-4347) -AGA for Phase I HLW Feed Tanks Selection, HNF-4219 -AGA for DST Primary Ventilation Systems Emissions Control and Monitoring, HNF-4245 -Project W-523 AGA, C104 SST Waste Feed Delivery, TWR-4454 -Reanalysis of Alternatives for Immobilized Low-Activity Waste Diposal (HNF-4003) -Waste Feed Delivery Technical Basis, HNF-1939
		3.4.1.2	Have the completed studies adequately addressed optimization of the entire system (waste feed delivery, immobilization, and disposal)?			Vol IV, Sec 2.7, 3.3														x				x																AGA for Low Activity Waste Retrieval Strategy (HNF-4347). Reanalysis of Alternatives for Immobilized Low-Activity Waste Diposal (HNF-4003) HNF-IP-0842, Vol. IV, Sec. 2.7, 3.3, Decision Management
		3.4.1.3	Have the value engineering studies specific to the waste feed delivery system optimized the feed delivery system?																					x															x	
3.5	**Technical Thresholds:** – Do technical performance thresholds (specifications) tied to desired end-dates exist for systems, structures, and components?																																						
3.5.1	Have technical specifications been set for systems, subsystems, and components and these specifications are tied to safety requirements and desired end states?	3.5.1.1	CHG planning and analysis demonstrates their ability to identify specific requirements and meet the requirements for the waste feed delivery and immobilized waste product storage and disposal systems.																	x								ICDs 14,15,19 & 20														Level 1 & 2 specifications for validated projects -System Spec for DST System (HNF-SD-WM-TRD-007) -System Spec for SST System (HNF-3912) -DRD for Interim Storage Phase 1 Solidification of High-Level Waste, Function 4.2.4.1.2 (WHC-SD-WM-DRD-012) -Preliminary DRD for Proj. W-314, Tank Farms Restoration and Operations (WHC-SD-W314-DRD-001, Rev. 1) -DRD for Proj. W-520 ILAW Disposal (HNF-2211) -DRD for Proj. W-465, ILAW Interim Storage (HNF-SD-W465-DRD-00, Rev.1) -Functions and Requirements Document for Interim Storage of Solidified High-Level and Transuranic Waste (WHC-SD-WM-ERD-027)
3.5.2	Have technical performance specification thresholds been reviewed and revised as necessary?	3.5.2.1	CHG has reviewed and revised the technical performance specifications to reflect AGA's, Trade Studies, changes in ORP technical guidance or requirements, and information from other sources.																	x																				-System Spec for DST System (HNF-SD-WM-TRD-007) -Preliminary DRD for Proj. W-314, Tank Farms Restoration and Operations (WHC-SD-W314-DRD-001, Rev. 1) -DRD for Proj. W-465, ILAW Interim Storage (HNF-SD-W465-DRD-00, Rev.1)
3.5.3	Are established technical specifications being controlled through formal change control procedures?	3.5.3.1	A formal change control process for the technical performance specifications is in place and functioning.			Vol VIII, Sec 1.1								x			x	x	x																				HNF-IP-0842, Vol. VIII, sec. 1.1, Baseline Change Control HNF-IP-0842, Vol. IV, sec.4.2.9, Eng. Document Change Control.

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 3.0 - Project Work Scope (4 Sheets)

Criterion Number	CRAD 3.0 - PROJECT WORK SCOPE	DOE Expectation Number	DOE Expectation Narrative	Mission Analysis Report, DOE/RL-2000-10	Draft Project Execution Plan, HNF-8017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1481	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1782	IHLW Storage Plan HNF-1761	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.5	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MGA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-OP-012	Additional Documents
3.6.3	Have ICDs 19 & 20 been updated and does C	3.6.3.1	ICDs 19 & 20 have been updated and CHG has the planning in place to characterize waste feed for certification																					X			ICD-19 & 20																
3.6.4	Does CHG have a plan to provide characterization as needed for interfaces and for its own needs?	3.6.4.1	CHG has the planning in place to characterize for its own needs, including operations and retrieval.																					X																		FY 2000 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, HNF-4048
3.7	Technical Performance Measures - Have technical performance measures been developed to assess progress against approved technical baselines?																																								
3.7.1	Has CHG developed performance objectives that assess their technical performance in meeting mission requirements?	3.7.1.1	CHG has identified the key technical performance objectives			Vol IV, Sec 2.4																				X												X	X					WFD TPM Assessment Plan (HNF-3943) Planned to complete FY00 - Level 1 & Level 2 specs for validated projects - TWRS Test & Evalutation Plan, HNF-2029 HNF-IP-0842, Vol. IV, sec. 2.4, Performance Measurement Level 1 & 2 specifications for validated projects
		3.7.1.2	CHG can relate program activities to the performance objectives			Vol IV, Sec 2.4																				X												X					WFD TPM Assessment Plan (HNF-3943) Planned to complete FY00 - Level 1 & Level 2 specs for validated projects
3.8	Operational Readiness - .- Ensuring Readiness of Construction Projects for Transition from Construction to Operations																																								
3.8.1	DOE must identify all construction projects with completion dates.	3.8.1.1	CHG will follow applicable DOE startup/restart requirements.			Vol I, Sec. 1.2																																					
3.8.2	DOE must assess themselves and the contractor for readiness per the established program.	3.8.2.1	Roles and responsibilities defined per ISMS Guiding Principles						X			X	X																									X				
3.8.3	CHG must have a program in place in compliance with applicable Orders and Directives to ensure readiness.	3.8.3.1	DOE line management will follow applicable DOE startup/restart requirements.			X																				X										PRO-055					X			HNF-IP-0842, Vol. I, Sec. 1.2, 1.3, Vol II, Sec 4.1.3 S/RIDs 1.6.3, 1.6.4, 1.6.5, 1.6.6
3.8.4	DOE and CHG should incorporate Lessons Learned from previous readiness reviews.	3.8.4.1	DOE will conduct an independent assessment of the startup/restart process.																																PRO-067							

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 4.0 - Project Schedule (5 Sheets)

Criterion Number	CRAD 4.0 - PROJECT SCHEDULE Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1761	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.9	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1948	Level 0 Logics	Level 1 Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-5113	Memo of RTP w/Phase 1, RPP-5118	HNF PROs, POLs, & MPs, RPP PROs	TH-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
4.0	**Schedule**																																												
4.1	**Master Schedule** – Has the master schedule been updated to define the work sequence and significant task interdependencies, including critical path and contingencies for the construction phase?																																												
4.1.1	Has CHG updated the master, intermediate and detailed schedules to depict the tasks needed to meet the constuction and follow-on milestone dates?	4.1.1.1	CHG has updated the master, intermediate and detailed schedules to depict the tasks needed to meet the constuction and follow-on milestone dates.																		X																								
		4.1.1.2	CHG has a system to ensure that changes to the master schedule are passed down to and integrated with the intermediate schedule and similarly to the detail schedules.			Vol VIII, Sec 1.1													X								X																		
4.1.2	Has CHG updated the schedules to identify the constraints and decision points for work accomplishment, to provide critical path visibility and to depict progress against the schedule baseline?	4.1.2.1	CHG has updated the schedules to identify the constraints and decision points for work accomplishment, to provide critical path visibility and to depict progress against the schedule bsaseline.																		X	X																								
		4.1.2.2	The CHG schedule is consistent with the DOE planning guidance(June, 1999) and any subsequent DOE directed changes.																		X							X																	RPP Key Planning Assumptions, RPP-5993, Vol. II, Sec. 1
4.1.3	Are the schedule activities logically tied to allow the calculation of a critical path and to determine appropriate strategies to manage the schedule?	4.1.3.1	The schedule activities are logically driven to determine the critical path																		X	X	X					X																	
4.1.4	Are the activities and logic identified for interfaces between CHG and PHMC sub-contractors?	4.1.4.1	Interfaces between CHG and PHMC subcontractors are clearly identified.																								X		X			X			X					X				
		4.1.4.2	PHMC's subcontractors (if any) have prepared logic driven schedules and allocated appropriate resoures to support the agreed to milestones with CHG.																		X																								
4.1.5	Do schedules contain appropriate contingency?	4.1.5.1	Schedules are prepared at 80% confidence.																																						X				
4.2	**Milestones** – Key project milestones for completing the design and construction phase have been defined and execution milestones have been scheduled.																																											
4.2.1	Has CHG developed a proposed baseline milestone schedule against which actual performance of major activities and milestones for the execution phase and subsequesnt project phases can be compared and from which forecast data can be generated?	4.2.1.1	CHG has developed a proposed baseline milestone schedule against which actual performance of major activities and milestones for the execution phase and subsequesnt project phasss can be compared and from which forecast data can be generated.																		X																								
4.3	**Performance/Trends in Schedule** - Has CHG demonstrated the capability to establish and control their schedule?																																											
4.3.1	Has a Master, Intermediate, and Detailed Schedule baseline been established with a "rolling wave concept" where less schedule detail is required for out year scope?	4.3.1.1	Schedules have been established with a "rolling wave concept" with less schedule detail required for out year scope.																		X																								
4.3.2	Has CHG incorporated ORP guidance into schedule and is this traceable to MYWP?	4.3.2.1	ORP guidance are traceable to the MYWP schedule.																		X					X																		
4.4.	**Management of Schedule Baseline** - Has CHG developed and demonstrated a schedule control process to assure timely completion of the project?																																											
4.4.1	Is the schedule control process clearly defined?	4.4.1.1	Changes to the schedules are processed through change control plans in line with approved quality assurance requirements.		X	Vol VIII, Sec 1.1							X									X					X																	RPP-PRO-522, MYWP RPP-PRO-519, Schedule Development

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 4.0 - Project Schedule (5 Sheets)

Criterion Number	CRAD 4.0 - PROJECT SCHEDULE Criterion/Specific Consideration	DOE Expectation Number	Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-8017	RPP Administration, HNF-IP-0842	Vol I, Sec. 2.4 & 2.5 Vol V, Sec. 7.1	Waste Feed Delivery Plan, HNF-1661	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1662	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1772	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec. 2.8	HR Staffing Plan, RPP-8114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1945	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5244	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6116	HNF PRDs, PDLs, & MP's, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-8017	Project System Engineering Documents	TWPS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
4.4.2	Is the implemented schedule control process efficient and effective?	4.4.2.1	Project performance is being reported regularly and corrective measures identified in accordance with approved CHG project control procedures and tracked to closure.		x																																					Monthly CHG reports to ORP & critical path analysis letter
4.4.3	Have critical paths been determined?	4.4.3.1	Critical paths for each individual project have been determined and are used to focus management attention and resources on specific activities to maintain each project's schedule.																			x				x																
		4.4.3.2	A critical path for the entire CHG work activity has been determined and is used to focus management attention and resources on specific work activities to maintain the overall project schedule.																			x				x																
		4.4.3.3	CHG has the capability to estimate the impact of compressed time frames, concurrent activities, potential conflicts and other time critical schedule elements.																			x																				
4.5	**Achievability of Schedule - Is there a high likelihood that the CHG schedule can be met?**																																									
4.5.1	Are the schedule activities tied to associated cost and scope?	4.5.1.1	A well-defined and logical WBS ties activities in the schedule.																			x	x	x				x														
4.5.2	Are the activities and logic identified for interfaces with PHMC sub-contractors?	4.5.2.1	Interfaces between CHG and external organizations are clearly identified and all external organizatons agree with the associated activities, resource loading, and logic.											x								x					x		x								x				MOA with FH. FH has contracts with major subs. Subs participate in ICDs.
		4.5.2.2	Memorandums of Understanding, contracts, or similar agreements are in place between CHG and PHMC sub contractor organizations for the appropriate interfaces.																								x						x								MOA with FH. FH has contracts with major subs. Subs participate in ICDs.
4.5.3	Is the quantity of resources assigned to the scheduled activities reasonable for the timeframe (duration) allotted to the activity?	4.5.3.1	Resource loading is comparable to that used by other contractors for projects of similar size and technical complexity.																									x													
4.5.4	Are risks associated with meeting the schedule managed per the CHG Risk Management Procedure?	4.5.4.1	CHG has a risk management list for each project where schedule risks are maintained and mitigating actions are identified and implemented.																									x				x						x			
		4.5.4.2	CHG has a critical risk management list for the entire CHG project where critical schedule risks are maintained and mitigating actions are identified and implemented.																									x				x						x			
4.6	**Design/Construction Planning - Is the CHG schedule for construction of the project effective in meeting the schedule requirements with minimal risk of cost/schedule overrun and ensuring project success?**																																								
4.6.1	Has CHG generated the information necessary to proceed with detailed design and initiate construction?	4.6.1.1	CHG had completed all construction-planning requirements defined in FY-2000 MYWP.																			x				x																CHG letter , CHG-000911 dated Feb. 28, 2000, "Integrated Construction Project/Operations Plan for RPP Schedule Phase I"
4.6.2	Has CHG identified "long-lead items requiring early procurement and established plans to acquire those materials (e.g., exotic materials, uniquely designed and limited supply items)?	4.6.2.1	CHG has identified the long-lead procurement items and has established the procurement mechanism to acquire those materials.																									x					x								
4.6.3	Has CHG developed a procurement and subcontracting strategy and plan consistent with the baseline schedule?	4.6.3.1	CHG has developed a procurement and subcontracted services strategy and plan to support the baseline construction schedule.																									x					x								
4.6.4	Has CHG identified labor resource needs and assesed their availbability?	4.6.4.1	CHG has estimated time phased requirements for construction labor and assessed the availability of required labor sources.														x											x					x								
4.6.5	Has CHG extablished plans for mobilizaton of the construction work force?	4.6.5.1	CHG has established a realistic construction plan and construction mobilization plan.																									x					x								CHG letter , CHG-000911 dated Feb. 28, 2000, "Integrated Construction Project/Operations Plan for RPP Schedule Phase I"

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 4.0 - Project Schedule (5 Sheets)

Criterion Number	CRAD 4.0 - PROJECT SCHEDULE Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1981	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1662	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.9	HR Staffing Plan, RPP-8114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level 1 Logics	AQA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-5113	Memo of RTP wPhase 1, RPP-6110	HNF PRDs, POLs, & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-ADP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
4.6.6	Has CHG completed construction reviews of the design that demonstrate constuctability of the design?	4.6.6.1	CHG has completed and documented constructability reviews of the facility design.																																							Constructability Review Documents for Validated Projects
4.6.7	Has CHG defined consruction work packages that wil allow timely initiation of construction?	4.6.7.1	CHG is on schedule to complete all necessary documentation and permits to initiate site preparation and construction.																		x				x									x		x						WFD Environmental Permits and Approvals Plan. HNF-2401
		4.6.7.2	CHG has prepared construction work packages for initial items requiring procurement.																												x			x		x						WFD Environmental Permits and Approvals Plan. HNF-2401
4.6.8	Has CHG provided a sufficiently detailed construction plan to assess the feasibility of the overall construction schedule?	4.6.8.1	The construction schedule is integrated with procurement, design, and permitting.										x								x															x						CH2M HILL Hanford Group, Inc. Corporation Acquisition Plan, (CHG-0001343) March 14, 2000
4.7	Start-up - Are start-up plans sufficient to support construction turnover to start-up, start up to operations, staff training, and permitting of the CHG projects that will achieve proposed B-2 schedule requirements?																																								
4.7.1	Has CHG successfully defined the interfaces, linkages, and sequence of activities necessary to transition between construction turnover and start-up and between start-up and turnover to operations?	4.7.1.1	CHG has established a start-up schedule that integrates construction turnover/interface start-up, start-up to operations, facility acceptance, staff training, preliminary waste products qualification/verification, and completes necessary permitting activities (e.g. RAWP)		x												x				x																					
		4.7.1.2	CHG has provided an acceptable start-up schedule to DOE.																		x																					
		4.7.1.3	CHG effectively planned for the transition between construction, facility acceptance, and operational acceptance of the facility, e.g., it is clear when the operations manager assumes responsibility for the facility operations.		x												x				x																	x				
		4.7.1.4	CHG had developed a schedule and plan to perform the Operational Readiness Review activities prior to radioactive operations. Level of detail in plans reflect maturity of project development.		x												x				x																	x				
4.7.2	Has CHG successfully defined and addressed the interfaces and interface requirements, linkages, and sequence of activities necessary to integrate PHMC and DOE operational and regulatory activities, e.g., TPA milestones, ICDs, etc.?	4.7.2.1	CHG has established a start-up schedule that integrates BNFL waste feed staging and product acceptance activities and completes final permitting and compliance actions.		x												x				x						x									x						WFD Environmental Permits and Approvals Plan. HNF-2401
4.8	Operations and Maintenance - Is planning to support operations and maintenance sufficient to achieve the schedule?																																								
4.8.1	Has CHG defined supporting operations and maintenance activities in the schedule?	4.8.1.1	Key operations and maintenance activities have been defined and scheduled, e.g., staffing plan, ongoing staff training and qualification, routine and non-routine, i.e., forced, outage frequecies, preventative maintenance plan, consumable materials usage plan and spare parts equipment requirements plan.														x																					x				x	
4.9	Interface Definition (ICDs) - Are the DOE/PHMC/BNFL interfaces sufficiently defined to determine the needed project schedule?																																								
4.9.1	Does the CHG project schedule contain the necessary CHG planning, design, construction, operations, and deactivation activities that support interfacing BNFL activities?	4.9.1.1	There is a process to identify and agree upon interface points.																																	x	x			x			
		4.9.1.2	Identified interfaces are in the CHG schedule.																		x															x							In process
		4.9.1.3	Interface activities and milestones are logically driven. All interface milestones have either predecessor or a successor.																		x																					
		4.9.1.4	Details include information necessary to determine a schedule for the planning, design, construction, and operation of the interface.																		x															x						
		4.9.1.5	The BNFL/DOE approved ICDs reflect consensus among the appropriate parties.																																	x	x						

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 4.0 - Project Schedule (5 Sheets)

Criterion Number	CRAD 4.0 - PROJECT SCHEDULE Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1661	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1662	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1775	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1948	Level 0 Logics	Level 1 Logics	AGAA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-5113	Memo of RTP w/Phase 1; RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5838	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
4.10	RPP Schedule – Has DOE integrated the RPP schedules which include the activities of CHG, BNFL, DOE ORP, DOE RL and other RPP participants?																																										
4.10.1	Integrated Planning Process – Is there a process in place for integrating the activities of CHG, BNFL, DOE ORP, DOE RL and other RPP participants?	4.10.1.1	Consistent scheduling system standards, specifications and guidance are used in the preparation and maintenance of the RPP schedule.			Vol I, Sec 2.6																										X											RPP-PRO-519, Schedule Development
		4.10.1.2	RPP participants are aware of their roles in schedule preparation and updates, and a communication system between RPP participants has been established.			Vol III, Sec 1.1																										X											RPP-PRO-519, Schedule Development Training Records
		4.10.1.3	Requirements and processes are in place for regular and systematic schedule updates, schedule analysis, and monitoring of actual duration and milestones.		X	Vol I, Sec 2.6																										X											Monthly CHG Report to ORP & Critical Path Analysis letter HNF-PRO-519
		4.10.1.4	DOE Procedure and documents for preparing schedule guidance, development and updates of the RPP schedule are in place.			Vol I, Sec 2.6																										X											HNF-PRO-519
4.10.2	Schedule Basis – Are schedule bases such as planning guidance, scope of work, work breakdown structure used in the preparation of the RPP Schedule documented?	4.10.2.1	All schedule bases such as planning guidance, scope of work, work breakdown structure are documented and traceable to the development of the RPP schedule.			Vol I, Sec 2.6																										X											RPP Key Planning Assumptions RPP-5993, Vol. II, Sec. 1 HNF-PRO-519
		4.10.2.2	There is trace-ability between the RPP schedule and the Integrated Priority List.																											X			X								
4.10.3	Schedule Development – Is technical logic complete at all levels, the program makes sense logically, and each activity is tied to and necessary to support a contractual requirement?	4.10.3.1	The RPP schedule was developed based on the RPP Work Breakdown Structure.																											X	X	X			X							
		4.10.3.2	The RPP schedule includes milestones, inter-project interfaces (logic ties) and all updates obtained from the activities of ORP, CHG, BNFL and other RPP participants.																																							PIO Responsibility
		4.10.3.3	Technical logic is complete at all levels, and lower-level logic rolls-up properly to higher-level logic.																											X											
4.10.4	Critical Path Schedule – Is the RPP critical path identified?	4.10.4.1	The critical path is identified and float has been calculated.																											X											
		4.10.4.2	The rationale used for identifying the critical path is documented.																											X											
4.10.5	Identification of Milestones – Have baseline and integrated milestones been developed, against which actual performance can be measured for all major activities and phases of the RPP?	4.10.5.1	The RPP schedules contain all Tri-Party Agreement milestones applicable to the vitrification of Hanford tank waste.																											X											
		4.10.5.2	The RPP schedules contain all DNFSB milestones applicable to the vitrification of Hanford tank waste.																											X											
		4.10.5.3	The RPP schedules contain milestones to control, monitor and measure performance of critical activities at various phase of the project.																											X											
4.10.6	Milestone Trace-ability – Is a method, procedure or system established to allow trace-ability of milestones to the next upper or lower level schedule?	4.10.6.1	Milestone trace-ability is provided by using a unique milestone identification number.4.10.6.2. Milestones are identified by Owner who has responsibility for control and completion of the milestones.																											X											
		4.10.6.2	Milestones are identified by Owner who has responsibility for control and completion of the milestones.																											X											
4.10.7	Milestone Completion – Is each milestone provided with a clear definition of completion?	4.10.7.1	Milestone Description documents, which identifies the information and criteria for completion, is provided for baseline milestones.																														X		X							
4.10.8	Assumption Identification – Are key assumptions used in the preparation of the RPP schedule identified and documented?	4.10.8.1	Enabling assumptions have been formally documented.																													X										

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 4.0 - Project Schedule (5 Sheets)

Criterion Number	CRAD 4.0 - PROJECT SCHEDULE Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-4017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1682	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. HNF-1901	Programmatic Baseline Summary HNF-1946	Level I Logics	Level II Logics	AQA's and Trade Studies	RPP, FY2000 M*YP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-5113	Memo of RTP w/Phase I, RPP-5116	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
		4.10.8.2	The criteria for designating an enabling assumption is well documented.																												x												
		4.10.8.3	The basis for the assumptions, document source, are identified.																												x												
4.10.9	Schedule Risk – Are appropriate activities and resources identified for mitigating schedule risk?	4.10.9.1	Schedule risk has been identified and is being managed.													x															x						x					
		4.10.9.2	Mitigating actions have been developed and responsible parties identified for each risk.																									x			x						x					
		4.10.9.3	Actions are in place to mitigate the impact on schedule for the need for a large contingent of skilled labor resources by both CH2M Hill and BNFL, especially during the peak periods of construction.														x				x																						
4.10.10	Reporting – Is a reporting system in place?	4.10.10	Management systems in place to track and report schedule performance and take appropriate corrective actions.		x	Vol I, Sec 2.6																																					Monthly CHG Report to ORP & Critical Path Analysis letter
4.10.11	Change Control Process – Is a change control process in place, which defines the requirements for the identification, planning, execution, documentation and approval of changes to the RPP schedules?	4.10.11.1	A procedure is in place, which defines change control requirements for the RPP schedules.		x	Vol VIII, Sec 1.1								x				x																									Vol VIII, Sec. 1.1 Change Control
		4.10.11.2	Changes to the RPP schedules are only implemented after change documents have been reviewed and approved by the proper approval authority.		x	Vol VIII, Sec 1.1								x				x																	x								RPP-PRO-519, Schedule Development RPP-PRO-522, MYWP
		4.10.11.3	Schedules are not re-baselined to remove a negative schedule variance (behind schedule).		x	Vol VIII, Sec 1.1								x				x																									

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 5.0 - Project Cost (2 Sheets)

Criterion Number	CRAD 5.0 - COST Criterion/Specific Consideration	DOE Expectation Number	Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1606	Engineering Plan HNF-1647	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1046	Level 0 Logics	Level I Logics	AQA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-4113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5838	Project Execution/Management Plans	Financial Analysis, HNF-3017	Project System Engineering Documents	TWRS SDRD, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
5.0	**Cost**																																											
5.1	**Cost Validation** – Has the Life Cycle Cost (LCC) been reviewed and reconciled?																																												
5.1.1	Have ICEs been conducted on the CHG portion of the LCC?	5.1.1.1	ICEs have been conducted on the CHG portion of the LCC.																																									-FM-20 ICE Report dtd July 16, 1996. - Foster Wheeler ICE Report dtd Sep 4, 1996. - FM-50 ICE Report dtd Sep 11, 1996. -Letter ser. 9954011, PT&C Audit to FY99 Baseline, dtd June 9, 1999.
5.1.2	Have differences between the CHG ICEs and the LCC been reconciled?	5.1.2.1	Differences between the CHG ICEs and the LCC have been reconciled.																																								-Contractor response to FM-20 ICE Report dtd Aug 8, 1996. -Contractor statused ICE responsea/Actions dtd Aug 20, 1996. -Letter 9954011R1 Contractor Response dtd June 30, 1999.
5.1.3	Has ORP completed the review of BNFL's estimate in accordance with the Decision Criteria?	5.1.3.1	ORP has completed the review of BNFL's cost estimate in accordance with the Decision Criteria.																																								N/A
5.2	**Time Phased Cost Plan** – Has a time phased cost plan been developed consistent with the most recent scope and schedule and in compliance with contractual requirements.																																											
5.2.1	Has the LCC for the entire RPP been defined?	5.2.1.1	The LCC for the entire RPP has been defined.																																									-Resubmittal of FY2000 rates, FDH-995154R2, dtd June 15, 1999. Was updated in Jan. 00. -Repriced BCR developed; will be submitted in Feb 00
5.2.2	Were the approved assumptions used in developing the LCC?	5.2.2.1	The approved assumptions were used in the development of the LCC.																																									-FY2000 Baseline Update Guidance for MYWP, FDH-9954322, dtd June 21, 1999. -Subsequent disposal guidance letter 9955938 dtd Aug 25, 1999 to be incorporated in RTP submittal. -MYWP transittal letter denoted exceptions to BUG Guidance, 9955861, dtd Aug 31, 1999.. Attachment 1 in transmittal letter denoted exceptions CHG took to BUG Guidance per agreements
5.2.3	Is the LCC based on the most current and approved project scope and schedule?	5.2.3.1	The LCC is based on the most current, approved project scope and schedule.																																									MYWP is time-phased for life cycle including CHG & BNFL Phase 1/2 missions
5.2.4	Is the LCC estimate used as a basis to obtain funding?	5.2.4.1	The LCC is the estimate used to formulate the budget.																																									Detailed TBR/CEIS backup to MYWP provides basis of letimate. The MYWP is the foundation for Congressional Funds requests.
5.2.5	Does the LCC include the costs for all the contractors?	5.2.5.1	The LCC includes all costs for all the contractors and DOE related to the RPP.																																									The MYWP includes resource requirements for all Hanford Contractors and subcontracted/RE services.
5.2.6	Does the LCC include incurred costs, estimate to complete, escalation, and contingency appropriate to the project risk?	5.2.6.1	The LCC includes incurred costs, estimate to complete, escalation, and contingency appropriate to the project risk.																																									-FY 97-99 year end Financial Reports. -Actual costs incurred for ORP WBS archived in Financial Systems and included in LCC. -Escalation per BUG guidance. -Contingency included in line item projects based on complexity.
5.2.7	Does the LCC allow the comparison of actual versus forecast costs with available funds and obligations?	5.2.7.1	The LCC allows for the comparison of actual versus forecast costs with available funds and obligations.																																									-The P3 schedules identify resource loaded scheduled activities to be executed. -Costs are accumulated against the tasks and monthly forecasts are performed to assure maintaining costs within funds ceiling.

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 5.0 - Project Cost (2 Sheets)

| | | DOE Expectation | | Implementation Document | | |

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 6.0 - Project Financial Management (1 Sheet)

Criterion Number	CRAD 6.0 - FINANCIAL MANAGEMENT Criterion/Specific Consideration	DOE Expectation Number	 Narrative	Implementation Document Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1681	ILAW Disposal Plan HNF-1517	AB Amendment Test Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1682	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1779	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level 1 Logics	AQA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PBDs, POLs, & MPs, RPP PBDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SyRID, HNF-SD-MP-SyRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
6.0	Financial Management																																											
6.1	Funding Profile – Are FY01 River Protection Project (RPP) requirements funded for the B-2 Decision?																																											
6.1.1	Is privatization set-aside funded for FY01? Is it supported by DOE-HQ, OMB, and Congress?	6.1.1.1	An FY01 privatization set-aside funding profile is identified with support from DOE-HQ, OMB, and Congress.																																								ORP Responsibility
6.1.2	Is ORP funded for FY01? Is it supported by DOE-HQ, OMB, and Congress?	6.1.2.1	An FY01 ORP funding profile is identified with support from DOE-HQ, OMB, and Congress.																																								ORP Responsibility
6.1.3	Is CHG funded for FY01? Is it supported by DOE-HQ, OMB, and Congress?	6.1.3.1	An FY01 CHG funding profile is identified with support from DOE-HQ, OMB, and Congress.																																								The FY01 compliance requirement is $40-60M above the target of $382M. Baseline execution is high risk.
6.1.4	Are DOE-RL efforts in support of ORP funded for FY01? Are they supported by DOE-HQ, OMB, and Congress?	6.1.4.1	An FY01 DOE-RL funding profile is identified with support from DOE-HQ, OMB, and Congress.																																								ORP Responsibility
6.1.5	Does the RPP have financial staff to administer funding activities?	6.1.5.1	ORP staffing meets financial staffing requirements.																																								ORP Responsibility
6.2	Alternatives-Analyses Funding– Is there a River Protection Project funding profile under consideration that meets projected expenditures for alternative(s)?																																											
6.2.1	ORP has identified funding profiles for various alternate paths and is supported by DOE-HQ.	6.2.1.1	ORP has identified funding profiles for various alternate paths and is supported by DOE-HQ.																																									Technology Insertion Points, FY99 PEP 1.3.2.c Closure package. TIPs submitted for baseline technology needs.
6.2.2	ORP staffing meets financial staffing requirements to perform an alternative path, if executed.	6.2.2.1	ORP staffing meets financial staffing requirements to perform each path, if executed.																																									Technology Insertion Points, FY99 PEP 1.3.2.c Closure package. TIPs submitted for baseline technology needs.
6.3	Prioritized Planning Process – Does a funding process exist in which all entities of the RPP funding requirements are integrated; activities can be prioritized; and the project can adapt to funding deviations?																																											
6.3.1	Does ORP have a clear process to determine funding requirements, execute the funds, and manage deviations as an integrated project, which includes ORP, DOE RL, and the project's contractors?	6.3.1.1	ORP has overall RPP procedures in place that guide ORP to assist directors with the annual budget development in which work scope is prioritized and has been issued to the contractors.																																								ORP Responsibility
6.3.2	Does ORP need additional tools to assist in the management of the funding process?	6.3.2.1	Based on the priority list, work scope can be adjusted and realigned to allow for deviations in funding. The priority list addresses the critical needs for project continuance and success. Refer to CRAD 1.4 "Project Management Tools" for change control tools.																																								ORP Responsibility

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 7.0 - Project ESH-Q-EIR (4 Sheets)

Criterion Number	CRAD 7.0 - ESH&Q Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1681	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1692	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol.IV, Sec 2.8	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1690	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6173	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5838	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
7.0	ES&H&Q																																											
7.1A	ES&H Program Plan - A detailed ES&H program plan has been completed (Contractor)																																											
7.1A.1	Does the ES&H Program Plan or equivalent documentation identify the specific, detailed ES&H requirements and considerations affecting the River Protection Project?	7.1A.1.1	The Contractor has an ES&H program which complies with the requirements of DOE rules (10 CFR 830.120 and 10 CFR 835) and is effectively implemented.							Vol IX, Section 1.1			x																							x									HNF-SD-HSP-002, Rev. 3, & HNF-MP-5184, Rev. 1
7.1A.2	Is the ES&H Program Plan or equivalent documentation effectively implemented?	7.1A.2.1	The Contractor has developed an integrated safety management system (ISMS) per DEAR Clause 970.5204-2 and has demonstrated effective ISMS implementation.		x					x			x																							x								
		7.1A.2.2	The Contractor has identified a set of applicable federal laws and regulations, and DOE Directives tailored for the associated work and hazards for the River Protection Project by using a DOE approved process per DEAR 970.5204-78.							x			x														x										x							-RPP-PRO-265, HNF-SD-WM-PLN-114
7.1A.3	Does the Contractor effectively assess their implementation of their ES&H Program Plan or equivalent documentation?	7.1A.3.1	The Contractor has demonstrated effective implementation of the DOE approved set of requirements for the River Protection Project.		x		Vol I Section 6.4			x			x														x		x								x							-ORP Letter 99-TSD-077 S/Rid Approval & RPP-PRO-265
		7.1A.3.2	The Contractor has presented a detailed schedule (with milestones) to fulfill the remaining (after RTP) ES&H gaps.				Vol I Section 6.4			x																											x							
7.1A.4	Does the Contractor monitor their ES&H performance to established performance goals?	7.1A.4.1	The Contractor has established applicable ES&H performance measures and evaluated ES&H performance per DEAR Clauses 970.5204-2 and 970.5204-86.							x			x																							x							RPP-PRO-653, Deficiency Tracking System
7.2	NEPA Activities - Does the Office of River Protection have required National Environmental Policy Act (NEPA) activities completed and a process in place to support the Phase 1 B-2 decision?																																										
7.2.1	Does ORP have a NEPA Process in place to assure appropriate NEPA review and generation of NEPA documentation, interfaces needed to assure a comprehensive NEPA review of projects, compliance with NEPA requirements, and ORP and HQ review and approval of NEPA determinations?	7.2.1.1	ORP will have a NEPA Process in place to assure appropriate NEPA review and generation of NEPA documentation, interfaces needed to assure a comprehensive NEPA review of projects, compliance with NEPA requirements, and ORP and HQ review and approval of NEPA determinations.																																								N/A to CHG
		7.2.1.2	The NEPA Process will provide for an integrated schedule to assure NEPA documentation, reviews, etc. are executed in a timely fashion to meet other scheduled and interrelated activities, including decision making.																																								N/A to CHG
7.2.2	Does the ORP have a designated NEPA Compliance Officer responsible for coordination of NEPA activities and providing the ORP Manager with advice regarding compliance with NEPA requirements and approval of NEPA determinations.	7.2.2.1	ORP will have a designated NEPA program manager responsible for coordination of NEPA activities and documentation; and to provide the ORP Manager with advice regarding NEPA compliance and decision requirements.																																								N/A to CHG
7.2.3	Do the Contractor(s) have 1) a NEPA process in place to assure appropriate NEPA review and generation of NEPA documentation, and 2) a designated NEPA Coordinator in place to interface with the ORP NEPA Compliance Officer?	7.2.3.1	The Contractor(s) will have: 1) a NEPA process in place to assure appropriate NEPA review and generation of NEPA documentation, and 2) a designated NEPA Coordinator in place to interface with the ORP NEPA Document Manager.										x																							x		x						RPP-PRO-452
		7.2.3.2	ORP Project Managers shall ensure that all project documentation required to support NEPA review and documentation are provided to the NEPA reviewer /document preparer to sustain the NEPA compliance plan and schedule.										x																							x								RPP-PRD-1997 & 99-DBD-015

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 7.0 - Project ESH-Q-EIR (4 Sheets)

Criterion Number	CRAD-7.0 - ESH&Q Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1681	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol IX	Infrastructure Plan HNF-1682	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol IV, Sec 2.8	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level 1 Logics	AQA's and Trade Studies	RPP- FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, PQLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5936	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
		7.2.3.3	BNFL and CHG shall support ORP NEPA reviews, NEPA documentation, and NEPA decision making by providing timely project documentation and professional consultation services (relating to project design and operations) as directed by ORP.										x																												CHG is staffed to support ORP NEPA Reviews
7.3	Safety Analysis – A Safety Analysis Report (SAR)																																									
7.3.1	Does CHG have an adequate AB for waste storage and transfer?	7.3.1.1	CHG has completed FSAR AB transition.					x																																	-TWRS Final Safety Analysis Report, HNF-SD-WM-SAR-067 -Technical Safety Requirements, HNF-SD-WM-TSR-006
7.3.2	Is the AB adequately implemented?	7.3.2.1	CHG has effectively completed implementation of all FSAR Phase I implementation open items and agreed on the disposition of the FSAR Phase II and Phase III items including its schedule and cost.					x																																	-TWRS Final Safety Analysis Report, HNF-SD-WM-SAR-067 -Technical Safety Requirements, HNF-SD-WM-TSR-006
7.3.3	Are plans in place to amend the AB to support waste feed delivery and associated projects?	7.3.3.1	CHG has a detailed plan and licensing strategy in place to amend the AB to support waste feed delivery and associated projects.			Vol IV		x																					150.B16, 150.B17 270.105, 270.110, 270.616																		-TWRS Final Safety Analysis Report, HNF-SD-WM-SAR-067 -Technical Safety Requirements, HNF-SD-WM-TSR-006 -HNF-IP-0842, Vol IV, Sec 5.10, AB Document Process -HNF-IP-0842, Vol IV, Sec 5.14, Tier 1 Review of AB Documents -HNF-IP-0842, Vol IV, Sec 5.4, Unreviewed Safety Questions
7.3.4	Is there an adequate Unreviewed Safety Question (USQ) process in place?	7.3.4.1	CHG has an adequate USQ process implemented to comply with DOE Order 5480.21 requirements.			x																																	HNF-IP-0842, Vol IV, Sec 5.14, Tier 1 Review of AB Documents HNF-IP-0842, Vol IV, Sec 5.4, Unreviewed Safety Questions
7.3.5	Are procedures in place for review of the AB documents?	7.3.5.1	CHG has AB document review procedures in place.			x																																	-HNF-IP-0842, Vol IV, Sec 5.10, AB Document Process -HNF-IP-0842, Vol IV, Sec 5.14, Tier 1 Review of AB Documents -HNF-IP-0842, Vol IV, Sec 5.4, Unreviewed Safety Questions
7.3.6	Is there an independent review of the safety analysis documents?	7.3.6.1	CHG has a process in place to have an independent review of the safety analysis documents.			x																																	HNF-IP-0842, Vol IV, Sec 5.14, Tier 1 Review of AB Documents
7.3.7	Does CHG have management infrastructure, processes, and procedural guidance necessary to provide a timely review of the FSAR and all AB documents?	7.3.7.1	CHG management has processes and procedural guidance necessary to review the FSAR and all AB documentation.			x																																	-HNF-IP-0842, Vol IV, Sec 5.10, AB Document Process -HNF-IP-0842, Vol IV, Sec 5.14, Tier 1 Review of AB Documents
7.3.8	Does CHG have adequate staff with appropriate skills to provide for review and approval of the SAR in a timely manner?	7.3.8.1	CHG has adequate staff with appropriate skills to provide for review and approval of the FSAR in a timely manner.			x																																	-HNF-IP-0842, Vol IV, Sec 5.14, Tier 1 Review of AB Documents
7.3.9	Does CHG have an adequate AB management structure in place e.g., AB docket, AB library, document management systems, configuration controls systems, etc.?	7.3.9.1	CHG has an adequate AB management structure in place (AB docket, AB library, document management systems, configuration control systems, etc.).			x																																	-HNF-IP-0842, Vol IV, Sec 5.10, AB Document Process
7.3.10.	Are ORP authorities and responsibilities clearly outlined and assigned, with adequate staff to perform the required activities to oversight the FSAR?	7.3.10.1.	ORP has management infrastructure (e.g. processes, procedures, staff) adequate for providing timely review and approval of documents.																																				N/A
7.4	Occupational Safety Concerns— Has the detailed compliance plan been reviewed and revised as appropriate, and has it been implemented?																																								
7.4.1	Does the occupational health and safety program effectively implement DOE rules, orders, and policies?	7.4.1.1	DOE expectations include full implementation of the DOE rules, orders, and policies as related to occupational safety issues associated with operations and activities in the tank farms.			Vol IX, Ch 1.1			x																																	Ch. 12 & 19			

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 7.0 - Project ESH-Q-EIR (4 Sheets)

Criterion Number	CRAD.7.0 - ESH&Q Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1317	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1982	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1948	Level II Logics	Level I Logics	AQA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPT's	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6116	HNF PROs, PQIs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5936	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
		7.4.1.2	DOE expectations also include the plan to remediate any new occupational safety hazards that may impact specific work activities or tasks in the tank farms.			Vol V, Sec 1.1				X																							X								
7.4.2	Are assessments and audits performed to evaluate the occupational safety program and the adequacy of qualified safety and health professionals for implementing the program?	7.4.2.1	Perform assessments and audits to evaluate the adequacy of qualified safety and health professionals for implementing the occupational safety and health programs.			Vol IX, Sec 1.1	Vol V, Sec 1.1			X																							X				Sect 19.1				
7.4.3	Does ORP have processes to place to manage occupational safety concerns tasks.	7.4.3.1	ORP must be ready to effectively manage occupational safety concerns within ORP itself as well as oversee contractor work.																																					N/A
		7.4.3.2	ORP must implement an adequate occupational safety employee concerns program.																																					N/A
7.5	**Waste Minimization and Pollution Prevention** - Has a detailed waste minimization/pollution prevention plan been reviewed and revised as appropriate for implementation during operations?	[redacted]																																						
7.5.1	Has a detailed waste minimization/pollution prevention plan been reviewed/developed and revised as appropriate by RPP for implementation during operations?	7.5.1.1	A Pollution Prevention/Minimization plan has been written by/including RPP which applies to waste feed delivery and associated operations										X																				X								Hanford Site Waste Minimization and Pollution Prevention Awareness Program Plan, DOE/RL-91-31, Rev. 4, September 1998
		7.5.1.2	The plan is acceptable to DOE-ORP										X																				X								DOE/RL-91-31, Rev. 4 is an official DOE-RL document that DOE-ORP has not expressed a concern with.
		7.5.1.3	The plan is being implemented and adhered to										X																				X								ES&H is the CHG point of contact for pollution prevention program. The pollution prevention program has published annual goals.
7.6	**Waste Management** - The detailed waste management plan has been reviewed and revised as appropriate.	[redacted]																																						
7.6.1	Does the waste management plan identify and confirm the types and quantities of waste expected during construction,start-up, and operation of facilities, systems structures, or components?	7.6.1.1	The waste management plan identifies and confirms the types and quantities of waste expected during construction, start-up, and operation of facilities, systems, structures, or components?			Vol VI, Sec 4.1																												X								-HNF-IP-0842, Vol. VI, Sec. 4.1, Waste Generating Plan -Hanford Site Solid Waste Acceptance Criteria (HSSWAC)
7.6.2	Does the waste management plan provide documentation of reviews and approvals?	7.6.2.1	A process is implemented to document reviews, changes, and approvals of the waste management plan.			Vol I, Sec 2.1																												X								-HNF-IP-0842, Volume 1, Section 2.1, Procedure Development -HNF-IP-0842, Vol VI, Sec 4.1 -Tank Farm Operating Procedures TO-100-052 and TO-045 -Tank Farm Operating Procedures TO-100-052 and TO-045 -DST Waste Analysis Plan, DOE/RL-90-39 - HNF-IP-0842, Vol VIII, Sec 1.1
7.6.3	Does the waste management plan integrate waste production and disposal with BNFL, CH2MHill, Hanford Site Waste, Department of Energy	7.6.3.1	The waste management plan integrates waste production and disposal with: -British Nuclear Fuels Limited -Ch2M Hill -Hamford Site Waste Management -Department of Energy Richland Operations Office and Office of River Protection			Vol I, Sec 4.1																							X		X				X								-HNF-IP-0842, Volume I, Section 2.1 -HNF-IP-0842, Volume VI, Section 4.1 -DST Waste Analysis Plan, DOE/RL-90-39
7.6.4	Does the waste management plan include: -an implementation schedule, and -measures and practices that will be used to manage, treat, and dispose of wastes?	7.6.4.1	The waste management plan includes: -an implementation schedule, -measures and practices that will be used to manage, treat, and dispose of wastes?			Vol VI, Sec 4.1																							X		X				X								-HNF-IP-0842, Volume VI, Section 4.1

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 7.0 - Project ESH-Q-EIR (4 Sheets)

Criterion Number	CRAD 7.0 - ESH&Q Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	LAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	HLW Storage Plan HNF-1781	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Engr. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol.IV, Sec 2.6	HR Staffing Plan, RPP-8114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1846	Level I Logics	Level II Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-8113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, PQLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5838	Project Execution Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
7.7	**Permits, Licenses and Regulatory Approval** - Have applicable permits, licenses, and regulatory approvals been obtained and have milestone dates for pending and new application been reviewed and revised as appropriate?																																										
7.7.1	Does the RPP operate under a DOE approved S/RID? Are applicable environmental requirements in Sections 16 and 20?	7.7.1.1	The RPP does operate under a DOE approved S/RID. Applicable environmental requirements are in Sections 16 and 20.		X								X																									X				X			HNF-SD-MP-SRID-001, Rev. 2 Secs 16 & 20
7.7.2	Does the RPP permitting program identify and schedule all permits needed to support feed delivery?	7.7.2.1	The RPP permitting program does identify and schedule all permits needed to support feed delivery.										X																									X							Waste Feed Delivery Environmental Permits and Approval Plan, HNF 2401, Rev 1
7.7.3	Are sufficient funds allocated in the annual planning schedule to prepare planned permits within cost and on schedule?	7.7.3.1	Sufficient funds are allocated in the annual planning schedule to prepare planned permits within cost and on schedule.																								X											X							Project TBR's
7.7.4	Is out year planning to identify needed permits done so these are assured to be in the RPP annual planning process?	7.7.4.1	Out year planning to identify needed permits is done so these are assured to be in the RPP annual planning process.										X										X															X							Waste Feed Delivery Environmental Permits and Approval Plan, HNF 2401, Rev 1
7.7.5	Does the RPP Authorization Envelope contain all approved environmental permits? Is a listing of such routinely generated?	7.7.5.1	The RPP Authorization Envelope does contain all approved environmental permits. A listing of such is routinely generated.						X				X																									X							HNF 4474 Rev 3
7.7.6	Does BNFL and RPP have sufficient interface control agreements to ensure waste feed delivery on time and within cost?	7.7.6.1	BNFL and RPP do have sufficient interface control agreements to ensure waste feed delivery on time and within cost.																					X							X	X												ICD's 15, 19, 20 & 26
7.7.7	Does RPP have procedures to ensure that permit approval conditions are implemented in the field?	7.7.7.1	RPP does have procedures to ensure that permit approval conditions are implemented in the field.			Vol VI, Sec 1.2							X																									X							Volume VI, Section 1.2
7.8	**Quality Assurance Program**																																											
7.8.1	Do we have an adequate Quality Assurance Program (QAP) for waste storage and transfer?	7.8.1.1	CHG has completed the QAP for waste storage and transfer.											X																									X							
7.8.2	Is the QAP adequately implemented?	7.8.2.1	CHG has effectively implemented all QAP requirements into auditable QA programs and procedures.											X																									X							
7.8.3	Are plans in place to update the QAP as needed to support waste feed delivery and associated projects?	7.8.3.1	CHG has a detailed plan in place to amend the QAP to support waste feed delivery and associated projects.											X																									X							
7.8.4	Are procedures in place for surveillance and audits of the implementation of the contractor QA programs?	7.8.4.1	CHG has an adequate audit and surveillance program to assure compliance with the requirements of the QAP.											X																									X							
7.8.5	Are appropriate Price Anderson Amendment Act coordination and program oversight functions established?	7.8.5.1	Are appropriate Price Anderson Amendment Act coordination and program oversight functions established?																																				X							Guidance For The Determination Of Significance And Reportability Of 10 CFR 835 Potential Noncompliances Price-Anderson Amendments Act (PAAA), HNF-1950

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 8.0 - Project Risk (1 Sheet)

Criterion Number	CRAD 8.0 - PROJECT RISK Criterion/Specific Consideration	DOE Expectation Number	DOE Expectation Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1681	ILAW Disposal Plan HNF-1517	AS Amendment Task Plan HNF-1725	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1682	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1951	Programmatic Baseline Summary HNF-1948	Level 0 Logics	Level 1 Logics	AQA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PRDs, PDLs, & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-009	Mission Summary Diagram, RPP-5743 & -5535	Project Execution Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Additional Documents
8.0	Project Risk																																												
8.1	DOE Risk Management																																												
8.2	CHG Risk Management – Does CHG have a risk management program in place necessary for successful management of the lifecycle of this project?																																											
8.2.1	Is it clear who in CHG is responsible for managing risk?	8.2.1.1	Clear roles and responsibility are defined for risk management at all levels within CHG.		x										x																												
8.2.2	Does CHG have a risk management plan/procedure for evaluating and managing risk?	8.2.2.1	Appropriate CHG staff & management have been trained on the risk management procedure.			x																									x												-Appropriate CHG staff & management have been trained on the risk management procedure. Reviewing the CHG training matrix shows that all those identified for the training have received it.
		8.2.2.2	A risk management procedure has been developed and is being used that identifies how risks will be managed in Phase 1B-2.		x									x	x																												
8.2.3	Does CHG assume the role of risk manager as appropriate?	8.2.3.1	CHG clearly identifies risk managers and holds them accountable for actions according to a defined schedule.		x										x													x															
		8.2.3.2	CHG has identified project risks, using a systematic methodology.		x										x													x				x											
		8.2.3.3	Risks identified can be tied to the project baseline through a project WBS.		x																							x															
		8.2.3.4	Critical risks within the life cycle of the project have been identified.		x																							x				x											
		8.2.3.5	CHG has taken an integrated approach to risk management.		x									x	x													x															
8.2.4	Has CHG identified project risks?	8.2.4.1	The assessment of the risk potential of baseline change requests is routinely performed by CHG.		x										x																												HNF-I-0642, Vol. VIII, Sec 1.1, Change Control
		8.2.4.2	CHG has evaluated risk that is inherent in the project baseline.		x																							x				x											Critical Risk List
8.2.5	Does CHG Phase IB-1 risk management performance demonstrate their ability to successfully establish and execute the risk management program for Phase IB-2?	8.2.5.1	An active risk management program was in place during Phase 1B-1 (i.e., focused management and staff attention on significant potential problems and to aid in communications) which will be used in Phase 1 B-2.		x										x													x				x											
		8.2.5.2	A mechanism is in place to take advantage of lessons learned in Phase 1B-1 risk management process that can be applied to Phase 1B-2.										x		x																			x										Lessons learned from RTP-1
		8.2.5.3	CHG has identified metrics to assess the effectiveness of the risk management process.												x																												To be included in FY 2000 revision of Risk Management Plan
		8.2.5.4	CHG uses the results from metric assessments to continually improve their risk management approach.												x																												To be included in FY 2000 revision of Risk Management Plan
8.2.6	Is there a single risk management process for the project?	8.2.6.1	CHG is integrated into a single risk management process for the project.		x										x																												
		8.2.6.2	A risk allowance is maintained and allocated as appropriate.		x										x													x				x											TBR Process
8.2.7	Is it clear what risk is inherent in decisions made by DOE?	8.2.7.1	For significant risks to the project, the decision to which they are tied is identified.		x									x														x				x											

Table 1. CRAD Requirement to CHG Deliverables Crosswalk. (23 Sheets)
CRAD 9.0 - Project Communications (1 Sheet)

| | | DOE Expectation | | Implementation Document | | |

Table 2. DOE Order 425.1, Minimum Core Requirements to CHG Deliverable Crosswalk. (2 Sheets)

Number	DOE Order 425.1 Core Requirement	RPP Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1681	ILAW Disposal Plan HNF-1317	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. I	Infrastructure Plan HNF-1682	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Plan HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1949	Level 0 Logics	Level I Logics	ADA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBR's	ICDs	IPT's	Acquisition and Contracting Plan, RPP-6113	Memo of RTP wPhase 1, RPP-6118	HNF PRDs, PDLs, & MP's, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
		Implementation Document																																						
1	**Procedures and Safety Limits** - There are adequate and correct procedures and safety limits for operating the process systems and utility systems.			x																									x										-HNF-IP-0842, Vol I, Sec 2.1 -HNF-PRO-589 -HNF-PRO-229 -HNF-PRO-223
2	**Training and Qualification Programs** - Training and qualification programs for operations and operations support personnel have been established, documented, and implemented. (The training and qualification program encompasses the range of duties and activities required to be performed.)			x																									x										-HNF-IP-0842, Vol I, Sec 2.11 -HNF-IP-0842, Vol III, Sec. 3.1, 4.1, 7.1, 7.2, 7.5 -HNF-IP-0842, Vol IX, Sec 1.1, 4.1 -HNF-PRO-065, 074, 153, 170, 171, 172, 175, 176, 177, 249, 424, 578
3	**Level of Operator Knowledge** - Level of knowledge of operations and operations support personnel is adequate based on reviews of examinations and examination results and selected interviews of operating and operations support personnel.			x																									x										-HNF-IP-0842, Vol III, Sec 7.3, 7.5 -HNF-PRO-153, 170, 176, 177, 249
4	**Safety Documentation** - Facility safety documentation is in place that describes the "safety envelope" of the facility. The safety documentation should characterize the hazards/risks associated with the facility and should identify mitigating measures (systems, procedures, administrative controls, etc.) that protect workers and the public from those hazards/risks. Safety systems and systems essential to worker and public safety are defined and a system to maintain control over the design and modification of facilities and safety-related utility systems is established.			x																									x										-HNF-IP-0842, Vol IV, Sec 3.4.5, 5.4, 5.6, 5.7, 5.8, 5.10 -HNF-PRO-062, 705 -RPP-PRO-229, 233, 440, 540, 700, 702, 703, 704, 705
5	**Safety System Operation** - A program is in place to confirm and periodically reconfirm the condition and operability of safety systems, including safety related process systems and safety related utility systems. This includes examinations of records of tests and calibration of safety system and other instruments that monitor limiting conditions of operation or that satisfy Technical Safety Requirements. All systems are currently operable and in a satisfactory condition.			x																									x										-HNF-IP-0842, Vol I, Sec. 2.1, 2.4, 3.21 -HNF-IP-0842, Vol IV, Sec 1.2, 2.1, 4.28, 5.2, 5.6 -HNF-IP-0842, Vol 5, Sec 6.2, 7.1, 7.2, 7.3 -RPP-PRO-052, 060, 067, 069, 072, 229, 410, 653
6	**Audit Safety Deficiencies** - A process has been established to identify, evaluate, and resolve deficiencies and recommendations made by oversight groups, official review teams, audit organizations, and the operating contractor.			x																									x										-HNF-IP-0842, Vol I, Sec. 2.4 -RPP-PRO-052, 060, 067, 069, 410, 653
7	**Safe Operations and Conformance with DOE Orders** - Formal agreements establishing requirements are in place between the operating contractor and DOE, via the contract or other enforceable mechanism, which govern the safe operations of the facility. A systematic review of the facility's conformance to these requirements has been performed. These requirements have been implemented in the facility, or compensatory measures are in place, and formally agreed to during the period of implementation. The compensatory measures and the implementation period are approved by DOE.			x																									x										-HNF-IP-0842, Vol I, Sec. 6.3 -RPP-PRO-265
8	**Operational Support Services** - Management programs are established, sufficient numbers of qualified personnel are provided, and adequate facilities and equipment are available to ensure operational support services (e.g., training, maintenance, waste management, environmental protection, industrial safety and hygiene, radiological protection and health physics, emergency preparedness, fire protection, quality assurance, criticality safety, and engineering) are adequate for operations.			x																									x										-HNF-IP-0842, Vol I, Sec. 2.1, 2.11, 3.11, 3.21, 3.29, 3.30, 3.32, 3.45, 4.2 -HNF-IP-0842, Vol III, Sec. 3.1, 7.1, 7.2, 10.3, 10.10 -HNF-IP-0842, Vol IV, Sec. 4.23, 5.8 -HNF-IP-0842, Vol V, Sec. 3.1 -HNF-IP-0842, Vol VI, Sec. 1.2, 2.2, 4.1.1, 5.6 -HNF-IP-0842, Vol VII, Sec. 1.1 -HNF-IP-0842, Vol IX, Sec. 5.1 -HNF-IP-0842, Vol XI, Sec. 1.1 RPP-PRO-084, 101, 115, 120, 153, 157, 170, 172, 176, 334, 350, 351, 424, 436, 451, 452, 453, 459, 540, 541, 1618, 1619, 1621, 1629 -HNF-PRO-171, 175
9	**Emergency Drill Program** - A routine and emergency operations drill program, including program records, has been established and implemented.			x																									x										-RPP-PRO-424
10	**Startup Test Program** - An adequate startup or restart test program has been developed that includes adequate plans for graded operations testing to simultaneously confirm operability of equipment, the viability of procedures, and the training of operators.			x																									x										-HNF-IP-0842, Vol II, Sec. 2.8, 4.8.3 -HNF-IP-0842, Vol III, Sec 10.8 -HNF-IP-0842, Vol IV, Sec 4.28, 5.4 -RPP-PRO-072, 229, 440, 572 -HNF-PRO-062, 552 -HNF-IP-0815, 0818
11	**Safety Responsibilities** - Functions, assignments, responsibilities, and reporting relationships are clearly defined, understood, and effectively implemented with line management responsibility for control of safety.			x																									x										-HNF-IP-0842, Vol I, Sec 3.1 -HNF-IP-0842, Vol II, Sec 4.1.1 -RPP-PRO-3468, 4616

Table 2. DOE Order 425.1, Minimum Core Requirements to CHG Deliverable Crosswalk. (2 Sheets)

Number	DOE Order 425.1 Core Requirement	RPP Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1481	ILAW Disposal Plan HNF-1917	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. I	Infrastructure Plan HNF-1469	RLW Storage Plan HNF-7751	Environmental Program Description, RPP-1773	QA Program Plan HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. VI, Sec 2.6	HR Staffing Plan, RPP-9114	Configuration Mgmt. Plan HNF-7950	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1948	Level 0 Logics	Level 1 Logics	AGAI's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-6044	MOA's	TBRs	ECOs	RFTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5826	Project Execution/Management Plans	Financial Analysis, HNF-6017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-013	Comments
12	**Conduct of Ops** - The implementation status for DOE 5480.19, CONDUCT OF OPERATIONS REQUIREMENTS FOR DOE FACILITIES, of 7-9-90, is adequate for operations.			X																																	-HNF-IP-0842, Vol II, Sec. 4, 5.15 -RPP-PRO-058, 081, 453, 696
13	**Qualified Operators** - There are sufficient numbers of qualified personnel to support safe operations.			X																																	-HNF-IP-0842, Vol III, Sec. 4.1 -RPP-PRO-424 -HNF-PRO-175
14	**Safety Awareness Program** - A program is established to promote a site-wide culture in which personnel exhibit an awareness of public and worker safety, health, and environmental protection requirements and, through their actions, demonstrate a high- priority commitment to comply with these requirements.			X																																	-HNF-IP-0842, Vol IX, Sec 1.1, 4.1 -RPP-PRO-074, 176, 410, 578 -HNF-PRO-065 -HNF-POL-OPEN
15	**Systems Consistent with Safety Basis** - The facility systems and procedures, as affected by facility modifications, are consistent with the description of the facility, procedures, and accident analysis included in the safety basis.			X																																	-HNF-IP-0842, Vol I, Sec. 2.1 -HNF-IP-0842, Vol III, Sec. 10.8 -HNF-IP-0842, Vol IV, Sec 5.4 -HNF-PRO-062, 552, 589 -RPP-PRO-223, 229, 572
16	**(DOE) Personnel Qualifications** - The technical and managerial qualifications of those personnel at the DOE Field organization and at DOE Headquarters who have been assigned responsibilities for providing direction and guidance to the contractor, including the Facility Representatives, are adequate (DOE Operational Readiness Review only).																																				DOE ONLY
17	**(DOE) Operational Readiness Review** - The breadth, depth, and results of the responsible contractor Operational Readiness Review are adequate to verify the readiness of hardware, personnel, and management programs for operations (DOE Operational Readiness Review only).																																				DOE ONLY
18	**Procedures and Training Match Modifications** - Modifications to the facility have been reviewed for potential impacts on procedures and training and qualification. Procedures have been revised to reflect these modifications and training has been performed to these revised procedures.			X																																	-HNF-IP-0842, Vol I, Sec. 2.11 -HNF-IP-0842, Vol IV, Sec 5.4 -HNF-PRO-062, 171, 175 -RPP-PRO-153, 170, 172, 176
19	**CHG Technical and Management Quals** - The technical and management qualifications of contractor personnel responsible for facility operations are adequate.			X																																	-HNF-IP-0842, Vol III, Sec. 10.2, 10.3, 10.4
20	**(DOE) Oversight** - DOE Operations Office Oversight Programs, such as Occurrence Reporting, Facility Representative, Corrective Action, and Quality Assurance Programs, are adequate (DOE Operational Readiness Review only).																																				DOE ONLY

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-01/ICD-02 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1681	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description HNF-IP-0842, Vol. XI	QA Program Description, RPP-177	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-01	**Raw Water**																																												
2.0	**Responsibilities**	1	Provide up to 760 liters per minute (Lpm) of process water to BNFL Inc. at a minimum operating pressure of 50 psig and a nominal operating pressure between 115 and 130 psig (Section 4.5). Deliver raw water for operations by August 4, 2003. (Section 4.3)																			X				330.070 330.090 330.100	X																		Project technical specifications
		2	Provide and maintain a pipeline for process water to the BNFL Inc. defined physical interface.																			X				330.070 330.090 330.100	X																		Project technical specifications
		3	Provide up to 9,450 Lpm of fire water ("Section 4.2) by start of construction (Dec 2000). (Section 4.3)																		X		X				330.070 330.090 330.100	X																		Project technical specifications
		4	Provide and maintain a loop pipeline for fire water to the BNFL Inc. site perimeter. (Section 4.3)																			X				330.070 330.090 330.100	X																		Project technical specifications
		5	Monitor raw water usage.																			X				330.070 330.090 330.100	X																		Operational plans
		6	Function as DOE Hanford Site Water Purveyor, up to the interface with BNFL Inc.'s Site.																			X				330.070 330.090 330.100	X																		Operational plans
		7	Provide BNFL Inc. 72-hr written notification in advance of scheduled interruption of services.																			X				330.070 330.080 330.090 330.100	X																		Operational plans
		8	Provide BNFL Inc. 7 calendar days written notification in advance of scheduled inspection of the raw water system.																			X				330.080	X																		Operational plans
		9	Provide to BNFL Inc. any available data on raw water composition, and static, and maximum flow line pressures for the raw water supply measured at the BNFL Inc. site defined physical interface.																			X				330.081	X																		Operational plans
		10	Provide raw water for BNFL Inc. construction activities by the start of site work (December 4, 2000).																		X		X				330.070 330.080	X																		
		11	The DOE Hanford Site Water Purveyor shall review and approve the BNFL Inc. design within 30 calendar days of the final submittal of the design.																		X		X				330.070 330.090 330.100	X																		

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-01/ICD-02 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-01	**RAW WATER**																																											
ICD-02	**POTABLE WATER**		BNFL-5193-ID-02, Rev. 7, October 8, 1999																																										
2.0	**Responsibilities**	1	Provide up to 200 Lpm of potable water to BNFL Inc. by December 2000																					X		X			330.070	X																Project technical specifications
		2	Provide and maintain a pipeline for potable water to the BNFL Inc. defined physical interface.																						X			330.070 330.080 330.090 330.100 330.110	X																Project specifications
		3	Monitor potable water usage.																						X			330.070 330.080 330.090 330.100 330.110	X																Operational plans
		4	Function as the DOE Hanford Site Water Purveyor.																						X			330.070 330.080 330.090 330.100 330.110	X																Operational plans
		5	Provide BNFL Inc. 7 calendar days written notification in advance of scheduled interruptions of services.																						X			330.070 330.080 330.090 330.100 330.110	X																Operational plans
		6	Provide BNFL Inc. 7 calendar days written advance notification of scheduled inspection of the potable water system backflow prevention and cross-connection control provisions, up to the BNFL Inc. potable water tank.																						X			330.070 330.080 330.090 330.100 330.110	X																Operational plans
		7	The DOE Hanford Site Water Purveyor shall review and approve the BNFL Inc. design for backflow prevention provisions within 30 days of the final submittal of the design.																						X		X	330.070 330.080 330.090 330.100 330.110	X																
		8	Provide potable water at a maximum static pressure of 150 psig.																						X			330.070	X																Project technical specifications
		9	Provide potable water at a minimum dynamic pressure of 70 psig.																						X			330.070	X																Project technical specifications

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-03 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Anelysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-03	Radioactive Solid Wastes																																										
2.0	**Responsibilities**	1	Review the HSSWAC Waste Certification Summary and [if the certification complies with applicable HSSWAC requirements,] accept certified radioactive [and radioactive mixed] solid waste from BNFL Inc. [Note – Waste Certification Summary to be changed to Waste Profile upon closure of issue #12.]																				X				330.010 330.020 330.030 330.100	X																CHG provides integration with Project Hanford
		2	Negotiate any necessary modifications to [non-BNFL Inc] Hanford Site [treatment, storage, and disposal] permits with the regulator(s).																				X				330.010 330.020 330.030 330.100	X																CHG provides integration with Project Hanford
		3	Establish and maintain the HSSWAC. [Provide written notification to BNFL Inc. identifying explicit revisions/ modifications to the HSSWAC.]																				X				330.010 330.020 330.030 330.100	X																CHG provides integration with Project Hanford
		4	Implement the Waste Verification and Confirmation Program, as defined in the HSSWAC.																				X				330.010 330.020 330.030 330.100	X																CHG provides integration with Project Hanford
		5	Provide transportation services and vehicles for transporting radioactive solid waste from the BNFL Inc. facility to the disposal facility. [Tiedowns and restraints shall be provided.]																				X				330.010 330.020 330.030 330.100	X																CHG provides integration with Project Hanford
		6	Notify BNFL Inc. [30 calendar days] in advance of scheduled interruptions of services [that would affect this interface.]																				X				330.010 330.020 330.030 330.100	X																CHG provides integration with Project Hanford
		7	Notify BNFL Inc. 60 calendar days in advance of solid waste forecast update due date.																				X				330.010 330.020 330.030 330.100	X																CHG provides integration with Project Hanford
		8	Provide, subject to receipt of necessary regulatory permit changes, Radioactive Solid Waste Services for waste feed tank modifications by January 2004 or per the IMP, whichever is later.																				X				330.010 330.020 330.030 330.100	X																CHG provides integration with Project Hanford
		9	Provide, subject to receipt of necessary regulatory permit changes, Radioactive Solid Waste services for operations by January 2005 or per the IMP, whichever is later.																				X				330.010 330.020 330.030 330.100	X																CHG provides integration with Project Hanford
		10	Negotiate special case waste (e.g., failed melters) disposal actions with BNFL Inc. to support schedule requirement for DOE to prepare for waste receipt and transport.					X				X											X				330.010 330.020 460.043 460.055 460.060	X																CHG provides integration with Project Hanford

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-03 (2 Sheets)

| ICD No. | ICD Title | Responsibility | | Implementation Document | | |

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-05/ICD-06 (3 Sheets)

ICD No.	ICD Title	Number	Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-05	Non-Radioactive Non-Dangerous Liquid Effluents		BNFL-5193-ID-05, Rev. 4, October 8, 1999																																							
2.0	Responsibilities	1	Accept from BNFL Inc. up to 300,000 m3/yr of non-radioactive, non-dangerous liquid effluents corresponding to an average flow rate of 570 Lpm. The maximum instantaneous discharge rate that will be accepted is 900 Lpm.																				X				330.010 330.020 330.030 330.070 330.100 330.210	X														CHG constructs the infrastructure, Project Hanford maintains it
		2	Provide and maintain a transfer pipeline from the defined physical interface to the 200 Areas TEDF by October 2001.																				X				330.010 330.020 330.030 330.070 330.100 330.210	X														CHG constructs the infrastructure, Project Hanford maintains it
		3	Negotiate with regulator(s) any necessary permit changes associated with the new waste stream.										X										X				330.010 330.020 330.030 330.070 330.100 330.210	X														CHG constructs the infrastructure, Project Hanford maintains it
		4	Verify the volume and composition of liquid effluent discharged by BNFL Inc. for permit compliance.																				X				330.010 330.020 330.030 330.070 330.100 330.210	X														CHG constructs the infrastructure, Project Hanford maintains it
		5	Notify BNFL Inc. 15 calendar days in advance of scheduled interruptions of services.																				X				330.010 330.020 330.030 330.070 330.100 330.210	X														CHG constructs the infrastructure, Project Hanford maintains it
		6	Negotiate a schedule for BNFL Inc. to submit to DOE the technical information for modifying the 200 Areas TEDF permits.																				X				330.210	X														CHG constructs the infrastructure, Project Hanford maintains it
		7	Notify BNFL Inc. of changes to regulatory permits and/or TEDF operating conditions that affect this interface.																				X				330.210	X														CHG constructs the infrastructure, Project Hanford maintains it
		8	Provide specification by November 1999 to BNFL Inc. for interface hardware components (leak detectors/pump interlocks).																				X				330.210	X														CHG constructs the infrastructure, Project Hanford maintains it
		9	Provide, subject to receipt of necessary regulatory permit changes, Liquid Effluent services by February 2003.																				X				330.010 330.020 330.030 330.070 330.100 330.210	X														CHG constructs the infrastructure, Project Hanford maintains it

(Column groups: Responsibility — Number, Narrative; Implementation Document — Mission Analysis Report through Operations and Utilization Plan. ICD Title header: ICD-05 NON-RADIOACTIVE, NON-DANGEROUS LIQUID EFFLUENTS; ICD-06 RADIOACTIVE, DANGEROUS LIQUID EFFLUENTS.)

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-05/ICD-06 (3 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-06	Radioactive, Dangerous Liquid Effluents		BNFL-5193-ID06 Rev 3 (October 5, 1999)																																								
2.0	**Responsibilities**	1	Specify and update, as needed and practical, the LERF/ETF treatability envelope (WMFSH, 1997).																				X			330.010 330.020 330.030 330.070 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		2	Accept from BNFL Inc. up to 100,000 m3/yr of radioactive, dangerous liquid effluent corresponding to an average flow rate of 190 Lpm.																				X			330.010 330.020 330.030 330.070 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		3	Provide and maintain a Resource Conservation and Recovery Act of 1976 compliant transfer pipeline from the physical interface point described in ICD-09 and interface for leak detectors/pump interlocks and the LERF/ETF by August 2003 or per the IMP (BNFL 1998a), whichever is later.																				X			330.010 330.020 330.030 330.070 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		4	Compare the predicted effluent characteristics to the LERF/ETF treatability envelope (WMFSH1997) and determine whether treatability tests, BNFL Inc. pretreatment, or LERF/ETF process modifications are necessary.																				X			330.010 330.020 330.030 330.070 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		5	During operation verify the volume and composition of liquid effluents discharged by BNFL Inc.																				X			330.010 330.020 330.030 330.070 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		6	Dispose of secondary solid waste resulting from waste water treatment at the LERF/ETF.																				X			330.010 330.020 330.030 330.070 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		7	Negotiate with regulator(s) any necessary permit changes associated with the new waste stream.										X										X			330.010 330.020 330.030 330.070 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		8	Notify BNFL Inc. 15 calendar days in advance of scheduled interruptions of services.																				X			330.010 330.020 330.030 330.070 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-05/ICD-06 (3 Sheets)

ICD No.	ICD-05 NON-RADIOACTIVE, NON-DANGEROUS LIQUID EFFLUENTS ICD-06 RADIOACTIVE, DANGEROUS LIQUID EFFLUENTS ICD Title	Responsibility: Number	Responsibility: Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	iHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
		9	Provide specification by August 1999 to BNFL Inc. for interface hardware components.																				X				330.010 330.020 330.030 330.070 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		10	Provide, subject to receipt of necessary regulatory permit changes, liquid effluent services by August 2003 or per the IMP (BNFL 1998a), whichever is later.																				X				330.010 330.020 330.030 330.070 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-09 (1 Sheet)

ICD No.	ICD-09 LAND FOR SITING ICD Title	Responsibility Number	Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description	Mission Summary Diagram, RPP-MP-003	Project Execution/Management Plans RPP-5742 & -5836	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-09	Land for Siting		BNFL-5193-ID-09, Rev. 2, October 8, 1999																																							
2.0	Responsibilities	1	Prior to the end of Part B-1 lease the portion of the site shown in Figure 1 of the ICD(excluding the substation area and the utility road corridor), a corridor for waste transfer lines, and an area adjacent to tank 241-AP-106 for waste transfer systems. Provide required siting information for tank waste transfer lines prior to BNFL Inc. initiating construction activities.																				X				330.010 330.070	X														Project specifications
		2	Perform removal of Grout Spoil Pile and all site preparations (clearing and grubbing) for construction of BNFL permanent (i.e. non-lay down) facilities by March 2000.																		X		X				330.010 330.070	X														Project specifications
		3	Provide necessary actions as a result of historical artifacts or cultural sites uncovered during site excavation by BNFL Inc.										X										X				330.010 330.070	X					X									Project specifications
		4	Close ground water monitoring wells prior to BNFL Inc. initiating site work, if necessary.																				X				330.010 330.070	X														Project specifications
		5	Implement actions to mitigate the biological impacts from the loss of habitat due to construction of the BNFL site and associated infrastructure.										X										X				330.010 330.070	X					X									Project specifications
		6	Perform boundary survey and set monuments prior to finalization of lease agreement.																				X				330.010 330.070	X														Project specifications
		7	Provide access to land at Authorization-to-Proceed.																		X		X				330.010 330.070	X														Project specifications
		8	Implement a DOE Native Americans Graves and Repatriation Act (NAGPRA) (43 CFR Part 10) agreement specifically for the vitrification site if a site wide agreement has not been concluded by the start of site work TBD.										X										X				330.010 330.070	X					X									
		9	Based on cultural surveys, prepare a letter to the State Historical Preservation Organization that documents the acceptability of the visual impact of the Privatization facilities.										X										X				330.010 330.070	X					X									

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-10 (1 Sheet)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-10	Deactivated Facility and Site		BNFL-5193-ID-01, Rev.3, October 8, 1999																																								
2.0	**Responsibilities**	1	Review and provide comments to BNFL Inc. on the final deactivation plan.																								TBD	X																Operational plans
		2	Agree to and approve the initial issue and subsequent revisions of the deactivation plan including: - Agree to and approve the deactivation end point criteria, final facility deactivated condition, and contributing end points. - Agree to and approve the hand over documentation and protocols to transfer the facilities from BNFL Inc. to DOE.																									X															Operational plans
		3	Provide 12 months advance notice of last waste feed shipment to BNFL Inc.					X																			TBD	X																Operational plans
		4	Authorize facility deactivation.																								TBD	X																Operational plans
		5	Select and contract a mutually agreed independent third-party professional engineer to confirm BNFL Inc. achievement of agreed deactivation end points.																								TBD	X																Operational plans
		6	Accept transfer and ownership of the deactivated facilities one month after deactivation for DOE performance of decontamination, decommissioning and RCRA closure at deactivation completion.																								TBD	X																Operational plans
		7	Continue to provide DOE-supplied utilities during deactivation.																								330.11	X																Operational plans

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-11/ICD-12 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-11	Electricity		BNFL-5193-ID-11 Rev 2A October 8, 1999																																									
2.0	Responsibilities	1	Deliver up to 33 MW of power at the defined parameters (13.8 kV 60Hz three phase power for the testing, start-up, and operation of the BNFL Inc. waste treatment facility), by August 4, 2003 (Activity ID#TBIC00011D). use MYWP schedule ID# T833050C5Z																	X	X				330.010 330.050 330.080 330.090	X																	CHG constructs the infrastructure, Project Hanford maintains it
		2	Monitor power consumption.																		X				330.010 330.050 330.080 330.090 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		3	Maintain electrical distribution at the defined capacity t to the Contractor's (BNFL Inc.'s) site perimeter.																		X				330.010 330.050 330.080 330.090 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		4	Notify the Contractor (BNFL Inc.) at least 24 hours in advance of scheduled interruption of services and maintenance.																		X				330.010 330.050 330.080 330.090 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		5	Provide BNFL Inc. detailed design information for tie-in to DOE's electrical substation by December 1999.																		X				330.010 330.050 330.080 330.090 330.100	X																	CHG constructs the infrastructure, Project Hanford maintains it
		6	Deliver up to 7MW of power at the defined parameters (13.8 kV 60 Hz three phase power) to support Contractor's (BNFL Inc.'s) construction power needs by December 4, 2000, (Activity ID #TBIC00011B). (use MYWP schedule ID # T833070S51)																	X	X				330.010 330.050 330.080	X																	CHG constructs the infrastructure, Project Hanford maintains it
		7	Deliver up to 0.54 MW of power 480 V 60 Hz, three phase power for the operation of tank 241 AP-106 and ancillary support systems by December 26, 2002 (Activity ID#TBIC00011A).																	X	X				330.010 330.050 330.080	X																	CHG constructs the infrastructure, Project Hanford maintains it
		8	Coordinate BNFL Inc. and DOE design by sharing/reviewing design information (breaker/relay type, set points etc.) of the main breakers on both sides of the interface by May 4, 2003. (Activity ID# TBIC000011E.) Any changes to the set points during startup shall be mutually agreed upon and maintained thereafter following the electrical system energization. Deliver power to the Contractor's (BNFL Inc.'s) site perimeter.																	X	X				330.010 330.050 330.080	X																	CHG constructs the infrastructure, Project Hanford maintains it

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-11/ICD-12 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description HNF-IP-0842, Vol. XI	QA Program Description, RPP-177	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-12	Roads		BNFL-5193-ID-12, Rev. 1, October 8, 1999																																							
2.0	Responsibilities	1	Provide road access between the BNFL Inc. site boundary and existing Hanford Site roads by June 5, 2000																		X		X				330.010 330.070 330.100	X														CHG constructs the infrastructure, Project Hanford maintains it
		2	Provide permanent road by August 3, 2004.																		X		X				330.010 330.070 330.100	X														CHG constructs the infrastructure, Project Hanford maintains it
		3	Maintain the existing paved roads in the vicinity of the BNFL Inc. facility that provide access to the BNFL site.																				X				330.010 330.070 330.100	X														CHG constructs the infrastructure, Project Hanford maintains it
		4	Manage road closures outside the BNFL Inc. site boundary as necessary.																				X				330.010 330.070 330.100	X														CHG constructs the infrastructure, Project Hanford maintains it
		5	Provide written notification to BNFL Inc. at least seven calendar days in advance of scheduled interruption of services.																				X				330.010 330.070 330.100	X														CHG constructs the infrastructure, Project Hanford maintains it
		6	Coordinate with BNFL Inc. to accommodate loads that exceed site size or weight limits for transportation.																				X				330.010 330.070 330.100	X														CHG constructs the infrastructure, Project Hanford maintains it

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-14 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	ACA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, PQLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-14	Immobilized High-Level Waste																																											
2.0	Responsibilities	1	Provide clean, approved shipping containers (casks) delivered to the Contractor-designated transfer facility. Shipping containers (cask) will be provided in accordance with the following: a) Smearable contamination on shipping container (cask) (internal and external): < 367 Bq/m2 alpha, and < 3,670 Bq/m2 gamma/beta. b) Radiation level (when loaded): < 200 mRem/hr for shipping container (cask) outer surface < 10 mRem/hr at a distance of two meters from the vertical surface of the shipping container (cask).								X												X					440.010 440.020 440.115 450.030	X																Project specifications
		2	Accept the IHLW product in accordance with Contract specifications, requirements, and procedures.								X											X					440.010 440.020 440.115 450.030	X																Project specifications
		3	Notify BNFL Inc. that DOE accepts the IHLW, or that DOE has identified a nonconformity.																			X					440.010 440.020 440.115 450.030	X																Operational plans
		4	Accept nonconforming IHLW in accordance with Section E, Inspection and Acceptance, of the Contract.																			X					440.010 440.020 440.115 450.030	X																ORP Responsibility
		5	Pickup the loaded shipping container (cask) from the Contractor- designated transfer facility (at the parking area adjacent to the loading bay located at the BNFL Inc. HLW vitrification facility)								X											X					440.010 440.020 440.115 450.030	X																ORP Responsibility
		6	Transport shipping containers (casks): a) Empty - to Contractor's loading facility b) Full - from Contractor's loading facility								X											X					440.010 440.020 440.115 450.030	X																Project specifications Operational plans
		7	Provide the transport vehicle.								X											X					440.010 440.020 440.115 450.030	X																Project specifications Operational plans
		8	Notify the Contractor in advance of scheduled interruption of services.								X											X					440.010 440.020 440.115 450.030	X																Operational plans

Table 3. Privatization Contractor Interface Control Documents
to CHG Deliverables Crosswalk. (20 Sheets)
ICD-14 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842 Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	ICD-14 IMMOBILIZED HIGH-LEVEL WASTE	9	Provide BNFL Inc. updated technical information for transport vehicle and design requirements for loading the shipping cask via technical working group session scheduled per Section 5, Issues 1,3,4,6 & 8.																			X				440.010 440.020	X																Project specifications
		10	Provide BNFL, Inc. 1 (one) shipping (cask) and transport trailer by February 2004 for Cold Testing/Operator Training.								X										X		X			440.010 440.020 440.115	X																
		11	Transport IHLW samples to the DOE-selected laboratory																			X				440.010 440.020 440.040 440.045 450.030	X																Operational plans

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-15 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-6017	ILAW Disposal Plan HNF-1881	AB Amendment Task Plan HNF-1517	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1722	HLW Storage Plan HNF-1751	Environmental Program Description HNF-1882	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Documents	Operations and Utilization Plan, RPP-SD-WM-SP-012	Technical Interface Ref. Ke	Comments
ICD-15	Immobilized Low-Activity Waste																																											
2.0	Responsibilities	1	Provide clean, approved shipping containers delivered to the Contractor-designated transfer facility. Shipping containers will be provided in accordance with the following: a) Smearable contamination on shipping container (internal and external): < 367 Bq/m2 alpha, and < 3,670 Bq/m2 gamma/beta. b) Radiation level (when loaded): < 200 mRem/hr for shipping container from the outer surface, and < 10 mRem/hr at a distance of two meters from the vertical surface of the shipping container.					X																X					460.005 460.015 460.250 470.075	X																Project specifications
		2	Accept the ILAW product in accordance with contract specifications, requirements, and procedures.					X																X					460.005 460.015 460.250 470.075	X																Project specifications
		3	Notify BNFL Inc. that DOE accepts the ILAW container, or that DOE has identified a nonconformity.																					X					460.005 460.015 460.250 470.075	X																ORP Responsibility
		4	Accept nonconforming ILAW container in accordance with Section E, Inspection and Acceptance, of the contract.																					X					460.005 460.015 460.250 470.075	X																ORP Responsibility
		5	Pickup the loaded shipping container from the Contractor-designated facility (at the parking area adjacent to the ILAW vitrification facility loading bay.)					X																X					460.005 460.015 460.250 470.075	X																Operational plans Technical specifications
		6	Transport shipping containers (casks): a) Empty - to the Contractor's loading facility b) Full - from the Contractor's loading facility					X																X					460.005 460.015 460.250 470.075	X																Operational plans Technical specifications
		7	Provide the transport vehicle.					X																X					460.005 460.015 460.250 470.075	X																Operational plans Technical specifications
		8	Provide BNFL, Inc. updated technical information by (TBD) for transport vehicle and design requirements for loading the shipping container.					X																X					460.005 460.015 460.200 460.210 460.220	X																Technical specifications

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-15 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	ICD-15 IMMOBILIZED LOW-ACTIVITY WASTE	9	Notify the Contractor in advance of scheduled interruption of services.					X															X				460.005 460.015 460.250 470.075	X																	Operational plans
		10	Provide BNFL, Inc. 1 (one) shipping container plus transport trailer by April 2005 for Cold Testing/Operator Training.					X														X		X				460.005 460.015 460.068	X																	Operational plans
		11	Transport IHLW samples to the DOE-selected laboratory					X															X				460.005 460.115 460.040 460.050	X																	Operational plans

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-16 (1 Sheet)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-16	Entrained Solids																																										
2.0	**Responsibilities**	1	Review the intermediate waste product certification information/requested transfer date and provide written acceptance (or rejection) within 15 working days of information receipt per contract Section E.																								TBD	X																
		2	Receive the entrained solids, and transfer line flush water.																								TBD	X																Operational plans
		3	Notify BNFL Inc. of interruption of services that would affect this interface.																								TBD	X																Operational plans
		4	Provide BNFL Inc. an interlock to the waste transfer controls and leak detection system.																								TBD	X																Operational plans
		5	Specify volume of transfer line flush.																								TBD	X																Operational plans
		6	Schedule and coordinate waste transfers.																								TBD	X																Operational plans

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-19 (1 Sheet)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1682	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1801	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-19	Low-Activity Waste Feed																																										
2.0	Responsibilities	1	Select waste envelope and define waste quantities (units) consistent with Specification 7, Low-Activity Waste Envelopes Definition.				X																					X							X								Project specifications
		2	Provide BNFL Inc. with representative sample(s) of each LAW feed batch, if requested by BNFL Inc., at least 30 days before the waste transfer day (WTD) and no later than 5 calendar days after DOE sampling of the feed batch.				X																X				150.V15 150.L15 150.E15 150.E50 150.K15 150.B36 150.B52 150.R15 150.R50 150.J15 150.J50 150.G15 150.G50 150.W15 150.T15 150.C15 150.C50 150.Z15 150.I15 150.N15 150.N50	X							X								Project specifications Operational plans
		3	Certify and document to BNFL Inc. at least 30 calendar days before the transfer, that the LAW batch conforms to Specification 7 and provide all supporting analytical documentation.				X																X				150.V25 150.L25 150.E25 150.E60 150.K25 150.B40 150.B56 150.R25 150.R60 150.J25 150.J60 150.G25 150.G60 150.W25 150.T25 150.C25 150.C60 150.Z25 150.I25 150.N25 150.N60	X							X								Project specifications Operational plans
		4	Notify BNFL Inc. that the conforming LAW feed batch is ready for delivery.																									X																Operational plans
		5	Provide interface point for BNFL Inc. to interlock pipeline leak detection system and transfer pumps with DOE System.																									X																Project specifications
		6	Transfer waste feed batch in accordance with Clause H.9, Ordering and Contract Order Quantities, to BNFL Inc. LAW feed receipt system , operated by BNFL Inc.				X														X							X								X								Operational plans
		7	Flush the transfer line.				X																X				150.V35 150.L35 150.L70150.E35 150.E70 150.K35 150.B44 150.B60 150.R35 150.R70 150.J35 150.J70 150.G35 150.G70 150.W35 150.T35 150.C35 150.C70 150.Z35 TBD 150.I35150.N35 150.N70 130.V25 130.L20 130.E35 130.K20 130.B55 130.R251 130.J25 130.G25 130.W25 130.T25 130.C25 300.Z25 300.I25 130.N25	X							X								Operational plans

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-20 (1 Sheet)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Documents	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-20	High-Level Waste Feed																																												
2.0	Responsibilities	1	Transfer the HLW feed consistent with Specification 8, High-Level Waste Envelope Definition to BNFL Inc.				X														X		X					X									X								Project specifications
		2	Provide representative sample(s) if requested by BNFL Inc. of HLW feed batch to BNFL Inc. at least 30 days prior to proposed transfer of the batch to BNFL Inc. and no more than 5 days after DOE's sampling of the feed batch.				X															X				160.A74 160.F74 160.H74 160.S74 160.P74 160.Q74 160.W74	X								X								Project specifications Operational plans
		3	Certify and document to BNFL Inc. at least 30 calendar days before the transfer, that the HLW feed batch conforms with Specification 8 and provide all supporting analytical documentation.				X															X				160.A76 160.F76 160.H76 160.S76 160.P76 160.Q76 160.W76	X								X								Project specifications Operational plans
		4	Notify BNFL Inc. that the conforming HLW feed is ready for delivery.				X															X					X																	Operational plans
		5	Transfer the waste feed to BNFL Inc. in accordance with Clause H.9, Ordering and Contract Order Quantities.				X																				X																	Operational plans
		6	Flush the transfer line.				X															X				160.010 160.020 160.030 160.040 160.050 160.060 160.070 160.080 160.090 160.100 160.110 160.120 160.130 160.140 160.150 160.160 160.170 160.180 160.190 160.200 160.210 160.220 160.230 160.240 160.250 160.260 160.270 160.280 160.290 160.300 160.310 160.320 160.330 160.340 160.350 160.360 160.370 160.380 160.390 160.400 160.410 160.420 160.430 160.440 160.450 160.460 160.470 160.480 160.490 160.500 160.510 160.520 160.530 160.540	X								X								Operational plans
		7	Provide and maintain a valve pit attached to a new primary transfer line SN-637 and back-up line SN-625. Equip the valve pit with 2 stubbed lines for BNFL Inc. to connect the BNFL Inc. provided waste transfer line(s).*				X															X					X									X								Project specifications
		8	Provide interface point for BNFL Inc. to interlock pipeline leak detection system and transfer pumps with the DOE system.				X															X					X									X								Project specifications

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-22/ICD-25/ICD-26 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-177	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMs	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Documents	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-22	**Air Emissions**																																											
2.0	**Responsibilities**	1	Maintain site-wide Air Air Operating Permit (AOP) and Treatment, Storage, and Disposal Unit (TSD) permits.																									X																ORP Responsibility
		2	Provide access to existing site air quality and meteorological data for Contractor use in preparing the NOC or other compliance documents.																			X				15B29		X																
		3	Review and concur on the NOC.																			X				15B29		X																
		4	Seek modifications to site-wide Air Operating Permit based on modification requests provided by Contractor, when approved by DOE.																									X																ORP Responsibility
		5	Use existing monitoring network to collect air samples required by DOE and not collected by the Contractor in the proximity of the Contractor facility during construction and operation.																									X																ORP Responsibility
		6	Allocate 1.5 mrem per year exposure to the MEI to the Contractor facility. Review and adjust allocation following completion of the permitting activities (NOC approval) and/or following collection of at least one year of sampling and/or monitoring data.																									X							X								ORP Responsibility
		7	Allocate 0.375 tons per year organic emissions to the Contractor facility. Review and adjust allocation following completion of the permitting activities and/or following collection of at least one year of monitoring data.																									X																ORP Responsibility
		8	Pay regulatory agency fees associated with routine regulatory permitting and agency oversight. Fees do not include fines, penalties or other such costs due to non-compliance by BNFL Inc.																									X																ORP Responsibility
ICD-25	**Emergency Response**																																											
2.0	**Responsibilities**	1	Maintain and implement the Hanford Site Emergency Response Plan and procedures.																								TBD	X																ORP Responsibility
		2	Provide access to site-wide emergency notification system.																								TBD	X																ORP Responsibility
		3	Update, as appropriate, Hanford site emergency response implementing procedures to incorporate BNFL Inc. notifications.																								TBD	X																ORP Responsibility
		4	Consider BNFL Inc. requests for Hanford Site emergency planning, preparedness, and response resources.																								TBD	X																ORP Responsibility

Table 3. Privatization Contractor Interface Control Documents to CHG Deliverables Crosswalk. (20 Sheets)
ICD-22/ICD-25/ICD-26 (2 Sheets)

ICD No.	ICD Title	Responsibility: Number	Responsibility: Narrative	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description HNF-IP-0842, Vol. XI	QA Program Description, RPP-177	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMs	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Ke	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
ICD-22 AIR EMISSIONS / ICD-25 EMERGENCY RESPONSE / ICD-26 PERMITS																																											
ICD-26	Permits																																										
2.0	Responsibilities	1	Review and comment on treatment facility permit applications(s)										X									X			15B29	X	X				X											
		2	Provide Hanford Site Information for use in permit application/modification preparation.										X									X			15B29	X	X				X											
		3	Provide support to Contractor-led permitting activities.										X									X			15B29	X	X				X											
		4	Request modifications of Hanford Site Permits, as appropriate, to incorporate contractor activities.										X									X			15B29	X	X				X											

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Project Management (2 Sheets)

Project Management

Implementation Document

Level	Criteria	LOI #	Lines of Inquiry	CRAD(s) CHG	CRAD(s) DOE/ORP	RPP Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol.	Infrastructure Plan HNF-1882	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Plan HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5838	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	Chain of Command																																											
	Is there Clear Accountability for success or failure of projects in DOE HQ?	PM1	Who will lead negotiations with BNFL and push the package through HQ?	N/A	1.3 1.6.4																																							
	Is there Clear Accountability for success or failure of projects in DOE RL?	PM2	What are the FDH contract incentives	N/A	1.3 1.6.4																																							
	Is there Clear Accountability for success or failure of projects in DOE ORP?	PM3	What is the planned evolution of ORP organization to support RPP as it proceeds to construction	N/A	1.3 1.6.4																																							
	Is there Clear Accountability for success or failure of projects in CHG?			1.3 1.6.4			X																						X															
	Is there Clear Accountability for success or failure of projects in BNFL?			N/A																																								
	Is there Clear Accountability for success or failure of projects in Bechtel-BNFL?	PM4	What are the critical team interfaces, and how will they be managed?	N/A																																								
	Do personnel know their roles, responsibilities and lines of authority in DOE HQ?	PM5	What are the key HQ roles during project review and approval, and during project implementation?	N/A	1.3 1.6.4																																							
	Do personnel know their roles, responsibilities and lines of authority in DOE RL?	PM6	What are the key RL roles during project review and approval, and during project implementation?	N/A	1.3 1.6.4																																							
	Do personnel know their roles, responsibilities and lines of authority in DOE ORP?	PM7	What are the key ORP roles during project review and approval, and during project implementation?	N/A	1.3 1.6.4																																							
	Do personnel know their roles, responsibilities and lines of authority in CHG?	PM8	How will the CHG organization evolve as the RPP proceeds to construction?	1.3 1.6.4			X	Vol. I, Sec. 3											X													X				X								
	Do personnel know their roles, responsibilities and lines of authority in BNFL?	PM9	How will the BNFL organization evolve as the RPP proceeds to construction	N/A																																								
	Do personnel know their roles, responsibilities and lines of authority in Bechtel-BNFL?	PM10	How will the Bechtel/BNFL joint team evolve as the RPP proceeds to construction	N/A																																								
	Is the chain of command well defined between the above entities?	PM11	What is the chain of command for making a change in project design, cost, or schedule?	1.5 1.6.4.3	1.5 1.6.4		Vol. IV, Sec. 2.8 Vol. VIII, Sec. 1.1																					X			X													DOE Contract with CHG, River Protection Project, DE-AC06-99RL14047
Mission																																												
	Is there a clear definition of "success" from DOE?	PM12	What is the planned RPP mission—to begin vitrifying waste by what date? Mission completion?		1.1 2.1.1	X																																						RPP Program Management Plan
	Does a clear definition of "success" exist from Congress?	PM13	What is the Congressional expectation for RPP? Schedule, capacity, cost, completion date?	N/A	1.1 2.1.1																																							
	Have people thought about and addressed "showstopper" issues that can be raised by stakeholders?	PM14	What are the showstopper issues, and how can RPP handle them? Who is responsible for this?	N/A	9.1																																							
Resources																																												
	Are adequate resources ($ or People) identified, provided and allocated to assure that key milestones can be met?	PM15	What is the funding plan for RPP, from contract execution through completion of vitrification?	1.3 4.8	1.3 4.8 6.1		X												X				X				X		X															
	Does ORP have the right mix of people to manage the work?	PM16	What is the ORP staffing plan for successive phases of the project? What types of skills are critical to success	N/A	1.3.1																																							
Documentation																																												
	Work Plan																																											
	Does an integrated, resource loaded schedule/plan exist for the TWRS, including all projects/elements?	PM17	What are the key unknowns and risks in the RPP project plan?	1.1.3.1 4.1 4.5.4 8.2	1.1 4.1 4.5 4.10													X	X								X		X			X	X						X					
	Does an effective design control/configuration management/damage control plan exist?	PM18	What is the RPP plan for design control/configuration management control during each project phase?	1.4 4.4	14 4.4			Vol VIII Sec 3.1												X																								HNF-IP-0842, Vol. IV, Sec. 4.29 Eng. Doc. Change Control
	Have technical, cost & schedule uncertainties been identified? Are mitigation plans in place?	PM19	What are the details of the risk mitigation plan for RPP, and who is responsible for each element?	5.2.6 8.2	5.1 8.1													X					X				X		X				X						X					

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets)
Project Management (2 Sheets)

Level	Criteria	LOI #	Lines of Inquiry	CRAD(s)		RPP Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol.	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Plan HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
Project Management																																												
	Is the regulatory compliance program adequate to avoid schedule/cost impacts?	PM20	Have all regulatory compliance issues been addressed, including those outside the Regulatory Unit?	7.7 7.3	7.7 7.3										x																				x	x					x			DOE Contract with CHG, River Protection Project, DE-AC06-99RL14047
	Integrated Safety Management																																											
	Does an effective ISM program exist?	PM21	Has the ISM plan been validated by independent review and accepted by DOE?	7.1.2 7.4.1	7.1.2 7.4.1							x																								x								
	Does an adequate safeguards and security program exist?	PM22	Has DOE approved the Safeguards and Security Plan for RPP? Was the approval conditional, and if so, what are the action items?	7.3	7.3																													x										Safeguards & Security Policy, RPP-POL-SAFE
	Project Management Plan																																											
	Is the Project Management Plan completed and available?	PM23	What are the key uncertainties in the Project Management Plan? How are these uncertainities being dealth with?	1.2 1.6.3 8.2	1.2 1.4 1.6.3 8.1		x											x															x						x					
Integrated Master Plan																																												
	Is the Integrated Master Plan completed and available?	PM24	Does an integrated master plan exist that defines all key interfaces for RPP? Do the people responsible for each interface acknowledge this responsibility and have the necessary resources?	1.5 1.6 4.10	1.6 4.10			Vol IV Sec 2.8															x							x														RPP Program Management Plan

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Nuclear Regulatory Requirements (3 Sheets)

Level	Nuclear Regulatory Requirements	LOI #	Lines of Inquiry	CRAD(s) CHG	CRAD(s) DOE/ ORP	Implementation Document: RPP Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1681	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol.I	Infrastructure Plan HNF-1882	HLW Storage Plan HNF-1781	Environmental Program Description, RPP-1773	QA Program Plan HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol IV, Sec 2.8	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1800	Engineering Plan HNF-1847	Technical Baseline Sum. Desc. HNF-1993	Programmatic Baseline Summary HNF-1946	Level II Logics	Level I Logics	AQA's and Trends Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6116	HNF PRDs, POLs, & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5638	Project Execution/Management Plans	Financial Analysis, HNF-3017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	Standard Requirement Identification and Documentation System (SRIDS)																																											
N1	Have SRIDS been indentified and implemented?	NR1	Verify compliance	7.1 7.7.1			X	Vol I, Sec 6.4																																X			X			
		NR2	How is training addressing work practices formerly described as sloppy or not thought out?					Vol. III								X																												
	DOE Regulations																																											
N2	Are requirements from DEAR 952.223-72 Radiation Protection and Nuclear Criticality incorporated and implemented?	NR3	Verify compliance	7.1 7.3				X																														X			X			-TWRS Final Safety Analysis Report, HNF-SD-WM-SAR-067 -Technical Safety Requirements, HNF-SD-WM-TSR-006 -HNF-IP-0842, Vol IV, Sec 5.10, AB Document Process -HNF-IP-0842, Vol IV. Sec 5.14, Tier 1 Review of AB Documents -HNF-IP-0842, Vol IV, Sec 5.4, Unreviewed Safety Questions HNF-IP-0842, Vol IV, Sec 6.1 - 6.6
N3	Are requirements from DEAR 952.223-74 Nuclear Facility Safety incorporated and implemented?	NR4	Verify compliance	7.3				X			X																											X			X			-TWRS Final Safety Analysis Report, HNF-SD-WM-SAR-067 -Technical Safety Requirements, HNF-SD-WM-TSR-006 -HNF-IP-0842, Vol IV, Sec 5.10, AB Document Process -HNF-IP-0842, Vol IV. Sec 5.14, Tier 1 Review of AB Documents -HNF-IP-0842, Vol IV, Sec 5.4, Unreviewed Safety Questions
		NR5	Verify Regulatory Unit governing agreements	7.3							X																																
		NR6	How will change in regulations be handled?	7.3				Vol VIII, Sec 1.1			X																													X			X			HNF-IP-0842, Vol I, Sec. 6.4 S/RID Process HNF-IP-082,Vol. IV, Sec. 5.10
		NR7	How is training addressing work practices formerly described as sloppy or not thought out?					Vol III,								X																							X						
	Site Procedures																																											
N4	Are Site Procedures being implemented?	NR8	Verify compliance	7.3				Vol. XI, Sec. 1.4 Vol. I, Sec. 2.10								X																								X		X		X		-TWRS Final Safety Analysis Report, HNF-SD-WM-SAR-067 -Technical Safety Requirements, HNF-SD-WM-TSR-006 HNF-IP-0842, Vol. I, Sec. 2.1
	Waste Management Plan																																											
N5	Does a waste management plan exist?	NR9	Determine through interviews if personnel are knowledgable of Waste Acceptance System Requirements Document	7.6	7.6			Vol VI Sec 4.1						X																			X										EIS-ROD WASRD applies only to IHLW
	Transfer plan																																											
N6	Does a waste transfer plan or procedures exist?	NR10	Determine if personnel are knowledgable in Tank Farm Waste Transfer Compatibilty Program	7.6				Vol VI Sec 4.1				X			X																										X		X		
	Deactivation Plan																																											
N7	Does a deactivation plan exist?	NR11	Determine if BNFL has a deactivation plan the RCRA permit for TSD	N/A																																								
	Waste acceptance criteria																																											
N8	Does BNFL have a Waste Acceptance Criteria?	NR12	Determine if waste acceptance criteria is in Dangerous Waste Portion of RCRA Permit for TSD of Dangerous Waste	N/A																																								
N9	Does CHG have a Waste Acceptance Criteria for the glass logs from BNFL?	NR13	Verify who and how compliance will be determined.	7.6.3						X				X		X															X										X		
	Regulatory Unit																																											
N10		NR14	How does the RU prevent poorly designed regulatory oversight or enforcement of regulations? Review design of RU base by sampling the Privatization Contract Appendix J reference documents.	N/A																																								

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets)
Nuclear Regulatory Requirements (3 Sheets)

Level	Nuclear Regulatory Requirements	LOI #	Lines of Inquiry	CRAD(s)	Implementation Document: RPP Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1951	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol.I	Infrastructure Plan HNF-1862	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Plan HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-4114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1848	Level 0 Logics	Level I Logics	AQA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PRDs, PDLs, & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5838	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MIP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
		NR15	Compare the plan and procedures for regulatory oversight of RPP privatization against the Corrective Action/Enforcement Action Program RL/REG-98-06.	N/A																																									
		NR16	Review mechanism to handle deficiences and non-compliances	N/A																																									
		NR17	Review MOA and MOU for Regulatory Unit and BNFL contractual requirements.	N/A																																									
		NR18	Review Regulatory Unit governing documentation	N/A																																									
		NR19	The RU is unique in DOE. Why?	N/A																																									
		NR20	Does RU have sufficient authority? What are the lines of authority? What is the resolution process for disputes? Between DOE and BNFL? Between Operations Offices? Between DOE Departments?	N/A																																									
		NR21	How is DOE ORP strengthening RU's interface with other regulatory agencies?	N/A																																									
		NR22	How is DOE RL strengthening RU's interface with other regulatory agencies?	N/A																																									
		NR23	How is DOE-HQ strengthening/supporting RU's interface with other regulatory agencies?	N/A																																									
		NR24	What does the Memorandum of Agreement between DOE EH and DOE EM cover?	N/A																																									
		NR25	What does the Memorandum of Understanding cover?	N/A																																									
		NR26	The original contractual language between DOE and BNFL did not precisely describe regulatory needs. Does it work for the RU to use Position Papers to provide clear guidence and expand on the expectations where contractual language was felt to be inadequate?	N/A																																									
		NR27	What has been incorporated into the contract, e.g., papers on Backfit and authorization?	N/A																																									
		NR28	How is the RU turning around the impression that DOE is inattentive to its responsibilities and blames the contractor?	N/A																																									
				N/A																																								
		NR29	Are there enough people in the RU for the upcoming reviews, given that the reviews have fixed deadlines?	N/A																																									
		NR30	Pressure to meet the schedule may force bad decisions. How will RU reviews catch these?	N/A																																									
		NR31	What actions does the RU take to correct an issue/finding? (Choose an issue and walk through the steps taken until it was resolved.)	N/A																																									
		NR32	If the RU brings in outside specialists or expertise, how can they be easily integrated into the RU team?	N/A																																									
				N/A																																								
		NR33	Explore exposure guidelines and dose to worker. Provide additional details.	N/A																																									
		NR34	How are the RU inspections assisting BNFL with regards to the Authorization Basis?	N/A																																									
		NR35	What aspects of design are detailed in the Authorization Basis?	N/A																																									
		NR36	Is the BNFL Authorization Basis up-to-date? Are appropriate standards incorporated? How can they verify this?	N/A																																									
		NR37	Does BNFL Authorization Basis meet with RU approval?	N/A																																									
				N/A																																								
		NR38	How many risks are currently being considered?	N/A																																									
		NR39	Which are being used by BNFL in the worst case scenarios for radiation does engineering design controls/mitigation?	N/A																																									
				N/A																																								
		NR40	How do they determine Richland's readiness to handle emergencies?	N/A																																									
		NR41	How do they determine ORP's readiness to handle emergencies?	N/A																																									
		NR42	How do they determine BNFL's readiness to address emergencies?	N/A																																									
		NR43	How do they determine CHG's ability to address emergencies?	N/A																																									

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Nuclear Regulatory Requirements (3 Sheets)

Level	Nuclear Regulatory Requirements	LOI #	Lines of Inquiry	CRAD(s)	Implementation Document: RPP Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-4017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1861	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. II	Infrastructure Plan HNF-1892	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Plan HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1847	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level 1 Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RYP w/Phase 1, RPP-6118	HNF PRDA, PDLs, & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5743 & -5838	Project Execution/Management Plans	Financial Analysis, HNF-3017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
				N/A																																										
		NR44	Does BNFL's process address the handling of and responding to emergencies? How do they verify this?	N/A																																										
		NR45	Does CHG has have an ability to address explosive gas generation/collection in pipelines/tanks? How do they verify this?	N/A																																										CHG has documents to control, but this is unrelated to RU
				N/A																																										
		NR46	How is BNFL addressing any process changes if found after B-2 decision to proceed?	N/A																																									
		NR47	How is RU gearing up to review these documents?	N/A																																									
		NR48	Who in ORP will review the HAR and how long will it take?	N/A																																								
				N/A																																									
		NR49	If Dr. Clark Gibbs left the RU, who would become its champion?	N/A																																									
		NR50	Who is BNFL's regulatory champion?	N/A																																									
		NR51	Who is CHG's regulatory champion?			Vol. I, Sec 3																																								CHG documents apply, but this is unrelated to RU.
		NR52	What is the public response to the RU? How is this measured?	N/A																																									

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Technical Processes (Vitrification) (2 Sheets)

Level	Technical Processes (Vitrification)	LOI #	Lines of Inquiry	CRAD(s) CHG	CRAD(s) DOE/ ORP	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1861	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1692	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level I Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IFTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PRDs, POLs, & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5835	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	Documentation																																																
T1	Are the Process Verification Testing and Product Qualification deliverables completed and available?	TP1	Does the Process Verification Testing Program cover the appropriate range of activities?	N/A																																												
		TP2	Does the Product Qualification testing meet the testing requirements of the 4 feed envelopes?	N/A																																												
		TP3	Are these programs linked to the overall schedule in sufficient detail to permit good analysis of program requirements?	N/A																																												
		TP4	Have the appropriate QA checks been incorporated to assure traceable documentation?	N/A																																												
T2	Have the functional requirements for the processing facility been defined?	TP5	Are the functional requirements applicable to the appropriate design areas?	N/A																																												
		TP6	Review functional requirements for a selected portion of the process.	N/A																																												
T3	Are all the codes and standards to be utilized in the facility design established?	TP7	Are the codes and standards for all design disciplines included?	N/A																																												
T4	Is the Engineering and Design Standards Requirements Document completed and available?	TP8	Are all of the disciplines covered in the Standards Document?	N/A																																												
		TP9	Are the documents readily available to the using personnel?	N/A																																												
T5	Are the Functional Specifications completed and available?	TP10	Are the Functional specifications sufficiently detailed to assure good design direction?	N/A																																												
		TP11	Are the documents readily available to the using personnel?	N/A																																												
T6	Is the Waste Form Compliance Plan (WCP) Final HLW completed and available?	TP12	Is the document approved?	N/A																																												
		TP13	Does the document cover all the Waste Acceptance Product Specification requirements?	N/A																																											
		TP14	Has implementation logic been developed that delineates tasks and responsibilities?	N/A																																											
T6A	Is there a formal Configuration Control Program	TP-47	Does the process cover all project aspects	N/A																																											
	Waste Processing			N/A																																											
T7	Has the expected performance for processing the four (4) waste envelopes been defined?	TP15	Are the 3 LAW material balances integrated with the HAW material balance?	N/A																																											
T8	Is there a formalized technical logic outlining the approach to deal with the critical issues associated with technical processing (vitrification) of the TWRS wastes?	TP16	Are the R & D programs associated with the difficult process steps?	N/A																																											
		TP17	Does a knowledge profile exist for each process step showing current base line and development needs?	N/A																																											
T9	Is a complete process flow sheet available for technical processes (vitrification)?	TP18	Does an integrated material balance exist including recycle streams?	N/A																																											
		TP46	Are critical process data available for process control?	N/A																																											
T10	Have other major internal and external technical reviews been conducted to date on the BNFL technical processes? Are summaries of the findings available? Is there a formalized system to track and respond to comments and recommendations?	TP19	Do the dispositions appear appropriate for the concern?	N/A																																											
		TP20	Does the program follow the recommendations through the implementation actions?	N/A																																											
		TP21	Review actions taken as a result of earlier independent reviews and operating experience from other DOE sites.	N/A																																											
T11	Have the key process vulnerabilities been analyzed, and have options to work around problems been identified?	TP22	Has a formal risk assessment been made for each process step?	N/A																																											
		TP23	Have alternative systems/approaches been evaluated for high risk technology? What is status of alternatives?	N/A																																											

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Technical Processes (Vitrification) (2 Sheets)

Level	Technical Proeesses (Vitrification)	LOI #	Lines of Inquiry	CRAD(s) CHG	CRAD(s) DOE/ ORP	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1800	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level II Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IFTs	Acquisition and Contracting Plan, RPP-6173	Memo of RTP w/Phase 1, RPP-6118	HNF PRDs, POLs & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	Documentation																																																
	Program Management																																																
T12	Has integration of design/operation/support been established?	TP24	At what point in the design is RAMI implemented?	N/A																																												
		TP25	What is the frequency of reviews? Are formal minutes kept?	N/A																																											
		TP26	Is a list of open items kept and dispositioned?	N/A																																											
T13	Is there an integrated program schedule which indicates the key activities of all the organizations involved in the ORP technical processes?	TP27	How are they integrated into the design needs?																																												
		TP28	How are they integrated into the overall schedule?	N/A																																											
		TP29	Are there any significant open items/technical issues unresolved?	N/A																																											
T15	Are clear lines of authority/responsibility for each ORP organization/entity established and documented?	TP30	Have the responsibilities for each organization been delineated?	N/A																																											
		TP31	Are the authority/responsibility relationships appropriate for prompt resolution of problems?	N/A																																											
		TP32	At what level of the organization are team coordinations formalized?	N/A																																											
	Program Integration																																														
T16	Are detailed interface agreements between the various entities involved in the technical processes defined and documented?	TP33	Are procedures formalized to ensure proper involvement at all steps of R&D?	N/A																																											
		TP34	Are R&D sub contractors controlled through formalized scopes of work?	N/A																																											
		TP35	Is there a formalized interface agreement between all disciplines?	N/A																																											
		TP36	Are cross-cut teams appointed to process areas to minimize rework?	N/A																																											
	Project Personnel																																														
T17	Are current projected levels of staff adequate to fulfill the requirements of the BNFL program for technical processes?	TP37	Does a resource loaded schedule exist? Does it meet project decision point requirements?	N/A																																											
		TP38	What are staffing plans as the project progresses?	N/A																																												
T18	Are the staff appropriately trained and educated to fulfill project requirements?	TP39	Are the organizations self supporting in their needs?	N/A																																											
		TP40	What is the manager to supervisor ratio?	N/A																																												
		TP41	What is the supervisor to worker ratio?	N/A																																												
		TP42	What is the technician/draftsman support level?	N/A																																												
		TP43	What is the administrative support percentage?	N/A																																												
		TP44	Are there formalized training programs for the respective functions?	N/A																																											
		TP45	What is the QA staffing and experience?	N/A																																												

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Environmental (1 Sheet)

Level	Environmental	LOI #	Lines of Inquiry	CRAD(s) RPP	CRAD(s) DOE/ ORP	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-8017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1681	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1781	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level 1 Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBR's	ICD's	IPT's	Acquisition and Contracting Plan, RPP-6113	Memo of RPP w/Phase 1, RPP-6118	HNF PRO's, POL's, & MP's, RPP PRO's	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	NEPA documentation					Implementation Document																																						
E1	Are there any Findings of No Significant Impact?	EL1	Verify item is satisfied	N/A	7.2																																							
E2	Are there any Environmental Assessments?	EL2	Verify item is satisfied	N/A	7.2																																							
E3	Are there any Environmental Impact Statements?	EL3	Verify item is satisfied	N/A	7.2																																							
	For Tanks	EL4	Verify item is satisfied	N/A	7.2																																							
	For Cross-site Pipeline	EL5	Verify item is satisfied	N/A	7.2																																							
	For the Diversion boxes	EL6	Verify item is satisfied	N/A	7.2																																							
E4	Have Supplemental EIS reviews been done?	EL7		N/A	7.2																																							
E5	Is NEPA documentation in place for all tasks, subprojects and line item projects under the ORP (TWRS)?	EL8	Determine if compliance is achieved	7.2	7.2									x																				x									HNF-PRO-452
E6	Is NEPA documentation to be completed prior to final commitment to an alternative?	EL9	Determine if compliance is achieved		7.2									x																				x		x							HNF-PRO-452
	OSHA																																											
E7	Have training requirements been met?	EL10	Determine if compliance is achieved or if items/issues appear to repeat	7.4	7.4			x				x																								x							
		EL11	CHG is required to provide annual ES&H safety training for their subcontractors. Do records exist? Are the health and safety plans complete?	7.4	7.4			Vol III, Sec 1.1				x																								x							
	RCRA																																											
E8	Have compliance requirements been identified?	EL12	Determine if compliance is achieved or if items/issues appear to repeat	7.1 7.6	7.1 7.6			Vol VI Sec 2.1, 2.2, 4.1						x																						x			x					Hanford Site Solid Waste Acceptance Criteria
		EL13	Determine status of RCRA TSD permit	7.7	7.7									x																													
		EL14	Determine status of high level waste delisting. How will the product be characterized to support this delisting?	N/A	7.7																																							HNF-2401
	TSCA																																											
		EL15	Determine if TSCA constituents are present in tank waste, and require treatment. If so, what impact will this have on the project?	7.7	7.7																														x								
	Compliance Tracking																																											
E9	Is there a tracking system for current and historical compliance issues	EL16	Determine if compliance is achieved or if items/issues appear to repeat	7.1.3 7.1.4			x	Vol VI Sec 2.1						x	x																					x		x						HNF-PRO 653, Deficiency Tracking System
	Quality Assurance																																											
E10	Has the waste in the tanks been characterized completely?	EL17	Determine if personnel are knowledgeable in Tank Farm Waste Transfer Compatibility Program	3.6																																								FY 2000 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, HNF-4048
E11	Is there quality assurance plan for transfer of wastes to/from the appropriate tanks?	EL18	Determine if personnel are knowledgeable in QARD requirements	3.6 7.8	7.8										x																						x						
	Health and Safety plans																																											
E12	Have Health and Safety plans been developed?	EL19	Determine if exists in BNFL 4/24 deliverable	N/A																																								
	Emergency Response																																											
E13	Are your Emergency Response requirements identified?	EL20	Determine if exists in BNFL 4/24 deliverable	N/A																																								
	Permitting																																											
E14	Are there "Road Maps" for permitting? Provide.	EL21	For RPP, what permits are required and are in place for DOE/CHG/BNFL? Determine if process in place to achieve compliance. How do they verify this?	7.7				Vol VI, Sec 1.2 Vol IV, Sec 2.2						x																															
	Noise level																																											
E15	Have noise levels been established for pumping the waste?	EL22	Have noise levels been established for pumping the waste? Is this a problem?	7.4.1.1				Vol IX Sec 1.1				x																								x								
	Process Hazards																																											
E16	Have process hazards been identified?	EL23	Determine compliance		8.1			Vol IX Sec 1.1			x									x																	x								

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Facilities and Contruction (5 Sheets)

Level	Facilities and Construction	LOI #	Lines of Inquiry	CRAD(s) CHG	CRAD(s) DOE/ ORP	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1661	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-9114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level 1 Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PRDs, PDLs, & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5839	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	Documentation																																																
	DOE-HQ (EM, EH, PC, CI)																																																
	Management																																																
FC1	Are management plans developed to accomplish required reviews?	F1	Are DOE-HQ Readiness to Proceed Criteria and Evaluation in a HQ management Plan or documented? (to assure appropriate criteria and readiness)	N/A																																												
FC2	Are required review organizations identified?	F2	Are HQ personnel personally reviewing the BNFL deliverables? (to assure deliverable copies and/or travel arrangements and facilities needed to support scheduled reviews, concurrence, approvals have been incorporated in HQ planning)	N/A																																												
FC3	Are responsibilities and authorities identified?	F3	Does HQ support the B-2 Summary Level Flow Path 2000? (to assess HQ leadership/champion(s); personnel buy-in and commitment; understanding of responsibilities; resource requirements to support schedule; and the impact if an Acquisition Advisory Board is convened)	N/A																																												
FC4	Have resource requirements been identified?			N/A																																													
FC5	Are interfaces with ORP and RL established?	F4	Do the HQ, ORP & RL communication plans support the schedule and review requirements? (to assure offices having cognizance over facilities and construction have adequate pre-knowledge of required information thus supporting expedited review and approval schedules)	N/A																																												
	DOE-RL/FDH																																															
	Scope of Work																																															
FC6	Are deliverables defined to support the program?																																															
FC7	Are standards and performance criteria defined?																																															
FC8	Are baseline schedules and critical paths identified?	F5	Are cost and schedules baseline, updated and monitored? Are critical paths identified and monitored? (to assure baseline cost estimates and schedules exist and are updated; critical path(s) have been determined; costs and schedules are monitored and trended; funding requirements/sources have been defined and committed; WBS is used, required infrastructure and support services are timely to support RPP) mission; contingencies are incorporated)	N/A																																												
FC9	Are baseline cost estimates developed and funding sources identified?	F6	Is funding adequate and committed to support the mission?	N/A																																												
FC10	Are interfaces with other facilities and contractors established?	F7	Do all the documents that define interface/infrastructure support requirements exist? If so where? (to assure infrastructure support requirements and standards are adequately defined and scheduled)	N/A																																											
FC11	Has a WBS been developed?	F8	Are there documents defining WBS? (to assure compatibility with integrated WBS)	N/A																																											
	Management																																															
FC12	Has a management plan been developed to accomplish the required work?	F9	Are RL/FHD Management controls and standards appropriate to support RPP? (to assess management plans and procedures support of RPP; consistency and implementation of engineering, design and construction standards throughout RL/FHD applicable projects and across interfaces; incorporation and adequacy of change control and configuration management and their integration with other elements of the program)	N/A																																												
FC13	Is there a formal process for change control?																																															
FC14	Is there a corrective action/tracking/close-out program?	F10	Have Corrective Action Programs addressed previous review and audit findings? (to assess implementation and close-out of findings/recommendations from previous/other reviews [including self-assessments] and how these items are addressed in a lessons-learned environment to help minimize and/or highlight repeat items; evaluate root cause analyses, if any are appropriate)	N/A																																												
FC15	Is there a structured organization?			N/A																																												
FC16	Are organization responsibilities and authorities established?			N/A																																												

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Facilities and Contruction (5 Sheets)

Level	Facilities and Construction	LOI #	Lines of Inquiry	CRAD(s)	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1847	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1848	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP- FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PRDs, POLs, & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
FC17	Is there a risk management program?	F11	Are risk management results being used? (to assess incorporation of risk management as an element of project management, facility design and construction management and the roll-up of the RL/FHD program to the RPP integrated risk management)	N/A																																							
FC18	Have RTP criteria been established/evaluated?	F12	Was RL/FHD Readiness to Proceed Criteria and Evaluation adequate? (to assure appropriate criteria and readiness)	N/A																																						
	Personnel																																											
FC19	Are personnel trained and qualified?	F13	Is there an established training program that ensures a qualified-continued resource of personnel? (to assess backgrounds, qualifications and training of personnel core competencies; continuity of direction and "corporate memory" to contribute to program success)	N/A																																						
FC20	Are resource requirements identified?	F14	Have resource studies been completed to assure required support staff? (to assess resource/staffing studies and plans assuring adequate support; critical skills and contingency planning; integration of resource needs planning with other parts of RPP)	N/A																																						
	Integration																																											
	See ORP																																											
	ORP																																											
	Scope of Work																																											
FC21	Are contractor/ORP deliverables defined to support the program?			N/A																																						
FC22	Are contractor/ORP standards and performance criteria defined?																																										-DOE Contract with CHG, River Protection Project, DE-AC06-99RL14047 -WFD TPM Assessment Plan, HNF-3943
FC23	Are contractor/ORP baseline schedules and critical paths identified?			N/A																																						
FC24	Are contractor/ORP baseline cost estimates developed and funding sources identified?			N/A																																						
FC25	Are contractor/ORP interfaces defined?			N/A																																						
FC26	Has a contractor/ORP WBS been developed?	F15	Are there documents defining WBS? (to assure compatibility with integrated WBS)																																							RPP Key Planning Assumptions, RPP-5993, Vol II, Sec 1
	Management																																											
FC27	Has a management plan been developed to accomplish the required work?			N/A																																						
FC28	Is there a formal process for change control?			N/A																																						
FC29	Is there a corrective action/tracking/close-out program?	F16	Have Corrective Action Programs addressed previous review and audit findings? (to assess implementation and close-out of findings/recommendations from previous/other reviews [including self-assessments] and how these items are addressed in a lessons-learned environment to help minimize and/or highlight repeat items; evaluate root cause analyses, if any are appropriate)	N/A																																						
FC30	Is there a structured organization?			N/A																																						
FC31	Are organization responsibilities and authorities established?			N/A																																						
FC32	Is there a risk management program			N/A																																						
FC33	Does organization support oversight/monitoring role?			N/A																																						
FC34	Have RTP criteria been established/evaluated	F17	Was RL/FHD Readiness to Proceed Criteria and Evaluation adequate? (to assure appropriate criteria and readiness)	N/A																																						
	Personnel																																											
FC35	Are personnel trained and qualified?	F18	Is there an established training program that ensures a qualified-continued resource of personnel? (to assess backgrounds, qualifications and training of personnel core competencies; continuity of direction and "corporate memory" to contribute to program success)	N/A																																						
FC36	Are resource requirements identified?	F19	How will future personnel resource requirements be handled?	N/A																																						

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets)
Facilities and Contruction (5 Sheets)

Level	Facilities and Construction	LOI #	Lines of Inquiry	CRAD(s)	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-8017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1851	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1847	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level 1 Logics	AQA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPT's	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6116	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	Integration																																														
FC37	Has an integrated management plan been developed?	F20	Are the PIO efforts proceeding as scheduled? (to assess the schedules/progress/success in integrating management plans, change controls, cost estimates, schedules, monitoring and trending, contingency planning, WBS use, standards requirements, configuration management, resource studies and planning; assure that efforts are timely and beneficial to ensuring the mutual success of all parties and accomplishment of the RPP overall mission)	N/A																																											
FC38	Has an integrated schedule and critical path been developed?	F21	Are integrated cost and schedules baseline, updated and maintained? Are integrated critical paths identified and monitored? (to assure baseline cost estimates and schedules, specifically supporting ORP, exist and are updated; critical path(s) have been determined; costs and schedules are monitored and trended; funding requirements/sources have been defined and committed; WBS is used; contingencies are incorporated)	N/A																																											
FC39	Has program integrated risk management been developed?	F22	Has risk management integration been completed?	N/A																																											
FC40	Are required interfaces identified and appropriate controlling documents (ICDs, MOUs) established?	F23	Does the ORP Communication plans support schedule and review requirements? (to assure all parties participating in, and necessary for the success of, the RPP have established lines of communication; integrated RPP, as well as individual participant, critical paths and priorities are communicated and understood; integrated RPP vision and goals, as well as individual participant visions and goals are communicated to all levels; and all personnel are working to assure the mutual success of all parties and the overall success of the RPP)	N/A																																											
FC41	Are integrated resource/source needs established?			N/A																																											
	BNFL																																													
	Scope of Work																																													
FC42	Are deliverables defined to support the program?	F24	We will review selected BNFL deliverables. (to assess management, standards, controls, facility engineering and design, schedules, construction planning, and interfaces meeting mission needs and requirements)	N/A																																										
FC43	Are standards and performance criteria defined?			N/A																																											
FC44	Are baseline schedules and critical paths identified?			N/A																																											
FC45	Are baseline cost estimates developed and funding requirements identified?			N/A																																											
FC46	Are interfaces with other facilities and contractors established?			N/A																																											
FC47	Has a WBS been developed?	F25	Are there documents defining WBS? (to assure compatibility with integrated WBS)	N/A																																										
	Management																																													
FC48	Has a management plan been developed to accomplish the required work?	F26	Are BNFL management processes, procedures, controls and standards, supplementary to the deliverables, supporting of a quality facility-design and construction? (to assess processes, procedures, controls, standards, reviews/self-assessments, change control and configuration management assuring quality facility design, engineering and construction planning)	N/A																																										
FC49	Is there a formal process for change control?			N/A																																											
FC50	Is there a corrective action/tracking/close-out program?	F27	Have Corrective Action Programs addressed previous review and audit findings? (to assess implementation and close-out of findings/recommendations from previous/other reviews [including QA audits and self-assessments] and how these items are addressed in a lessons-learned environment to help minimize and/or highlight repeat items; evaluate root cause analyses, if any, are appropriate)	N/A																																										
FC51	Is there a structured organization?			N/A																																										
FC52	Are organization responsibilities and authorities established?			N/A																																											

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Facilities and Contruction (5 Sheets)

Level	Facilities and Construction	LOI #	Lines of Inquiry	CRAD(s)	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
FC53	Is there a risk management program?	F28	Are the risk management results being used? (to assess incorporation of risk management as an element of project management, facility design, engineering and construction management and the roll-up of the BNFL program to the RPP integrated risk management)	N/A																																							
FC54	Have RTP criteria been established/evaluated?	F29	Was the Readiness to Proceed Criteria and Evaluation adequate? (to assure appropriate criteria and readiness)	N/A																																							
	Personnel																																										
FC55	Are personnel trained and qualified?	F30	Is there an established training program that ensures a qualified-continued resource of personnel? (to assess backgrounds, qualifications and training of personnel core competencies; continuity of direction and "corporate memory" to contribute to program success)	N/A																																							
FC56	Are resource requirements identified?	F31	Have resource studies been completed to assure required support staff? (to assess resource/staffing studies and plans assuring adequate support; critical skills and contingency planning; integration of resource needs planning with other parts of RPP)	N/A																																							
	Integration																																										
	See ORP																																										
	CHG																																										
	Scope of Work																																										
FC57	Are deliverables defined to support the program?			3.1.4 1.1.1		x																x	x	x				x								x							
FC58	Are standards and performance criteria defined?	F32	Where are the standards and performance criteria defined for the tank waste characterization and control, and facility safety? (to assess the program for waste characterization including qualification and certification activities; waste/tank feed sequencing; addition, deletion and control of tanks and wastes in the base program; program/process to ensure continued confidence in knowledge of characterization if there are waste additions; open Uses affecting the tanks and facilities to support the RPP; status/disposition, if any, of any NCS concerns)	1.2 3.1 3.7			Vol IV Sec 4.1.6				x																	x	x						x								-DOE Contract with CHG, River Protection Project, DE-AC06-99RL14047 -WFD TPM Assessment Plan, HNF-3943 Level 1 & 2 specifications for validated projects
FC59	Are baseline schedules and critical paths identified?	F33	Are the baseline schedules and critical paths identified so that the cost estimates and schedules are monitored and trended? (to assure baseline cost estimates and schedules exist and are updated; critical path(s), in particular for line item projects, have been determined; cost and schedule monitoring and trending; funding requirements/sources have been defined and committed; WBS is used; required waste delivery capabilities, infrastructure and support services are timely to support RPP mission; contingencies are incorporated). Are there any unique materials or equipment required? (to assure adequate consideration of lead-times necessary for materials and equipment; and the ability to provide equipment and deliver wastes to meet interface and infrastructure requirements and support the overall success of the RPP)	4.1 4.4 4.10				x														x	x	x				x															
FC60	Are baseline cost estimates developed and funding sources identified?	F34	Are there any unique materials or equipment required? (to assure adequate consideration of lead-times necessary for materials and equipment; and the ability to provide equipment and deliver wastes to meet interface and infrastructure requirements and support the overall success of the RPP)	5.1 5.2 6.1																						x		x			x						x						CH2M HILL Hanford Group, Inc. Corporation Acquisition Plan, (CHG-0001343) March 14, 2000
		F35	Is funding adequate and committed to support the mission?																			x																x					
FC61	Are interfaces with other facilities and contractors established?	F36	Where are the documents that define waste delivery, interface and infrastructure support requirements? (to assure waste delivery and other support requirements and standards are adequately defined and scheduled).	1.5 4.9			Vol IV Sec 2.8	x	x			x	x								x	x					x		x	x					x		x				x		HNF-IP-0842, Vol. IV, sec. 2.8, Interface Control Level 1 & 2 specifications for validated projects

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Facilities and Contruction (5 Sheets)

Level	Facilities and Construction	LOI #	Lines of Inquiry	CRAD(s)	Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1881	ILAW Disposal Plan HNF-1517	AS Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1862	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1847	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IP's	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6178	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5838	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
				Implementation Document																																						
FC62	Has a WBS been developed?			1.1.2 1.6.2		X															X																				RPP Key Planning Assumptions, RPP-5993, Vol II, Sec 1
	Management																																								
FC63	Has a management plan been developed to accomplish the required work?	F37	Are the CHG management controls, design, engineering and construction standards appropriate to support the RPP? (to assess management plans and procedures necessary to support the RPP; consistency and implementation of engineering, design and construction standards; use of value engineering concepts; interfaces; incorporation and adequacy of change control and configuration management and their integration with other elements of the program)	1.6		X																													X				
FC64	Is there a formal process for change control?			1.4			Vol VIII Sec 1.1																																	HNF-IP-0842, Vol. IV, sec. 1.1, Baseline Change Control
FC65	Is there a corrective action/tracking/close-out program?	F38	Have Corrective Action Programs addressed previous review and audit findings? (to assess implementation and close-out of findings/recommendations from previous/other reviews [including self-assessments] and how these items are addressed in a lessons-learned environment to help minimize and/or highlight repeat items; evaluate root cause analyses, if any are appropriate	7.8A.4			Vol I Sec 2.4									X																			X		X				RPP-PRO-052, Corrective Action Management HNF-PRO-653, Deficiency Tracking System
FC66	Is there a structured organization?			1.3		X	Vol 1 Sec 3.1																													X					HNF-IP-0842, Vol. IV, sec. 3.1, Charters
FC67	Are organization responsibilities and authorities established?			1.3			Vol 1 Sec 3.1																														X				
FC68	Is there a risk management program?	F39	Are risk management results being used? (to assess incorporation of risk management as an element of project management, facility design, engineering and construction management and the roll-up of the CHG program to the RPP integrated risk management)	8.1 8.2		X	Vol. IV, Sec. 2.8								X		X																								
FC69	Have RTP criteria been established/evaluated?	F40	Are Readiness to Proceed Criteria and Evaluation adequate? (to assure appropriate criteria and readiness)	1.1-9.2																															X			X					CRADS
	Personnel																																								
FC70	Are personnel trained and qualified?	F41	Is there an established training program that ensures a qualified-continued resource of personnel? (to assess backgrounds, qualifications and training of personnel core competencies; continuity of direction and "corporate memory" to contribute to program success)	4.8 1.3 7.1																															X		X					Level 1 specifications for Validated Projects
FC71	Are resource requirements identified?	F42	Have resource studies been completed to assure required support staff? (to assess resource/staffing studies and plans assuring adequate support; critical skills and contingency planning; integration of resource needs planning with other parts of RPP)	4.8														X							X																

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Business and Finance (2 Sheets)

Level	Business & Finance Criteria	LOI #	Lines of Inquiry	CRAD(s) CHG	CRAD(s) DOE/ORP	Implementation Document: Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1861	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level 1 Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5808	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS S/RID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	Financial Projections																																																
B1	Have Baseline Projections been prepared for the River Protection Project (RPP)?	BF1	Have Contingencies been included in the Plan?	N/A																																													
		BF2	Has there been an Independent review of the financial model assumptions?	N/A																																												
		BF3	Have the financial and cost impacts of regulatory changes been analyzed?	N/A																																												
		BF4	Is there a system to trade costs?	N/A																																												
		BF5	Has the system for determining the best deal for the government been well explicated?	N/A																																												
		BF6	Are the Life Cycle costs calculated properly and presented in the Report to Congress?	N/A																																												
	Financing																																														
B2	Is there a system for Evaluating and Negotiating the Financing?	BF7	Have Government Vs Private Financing alternatives been analyzed?	N/A	6.2																																											
		BF8	Has the overall Financing Structure been analyzed , including debt vs. equity tradeoffs?	N/A	6.1																																											
		BF9	Have alternative financing options been considered?	N/A	6.2																																											
		BF10	What is the optimal debt structure - long term, medium term, short term.?	N/A																																												
		BF11	Have hedges been considered for any foreign currency risks?	N/A																																												
		BF12	Is there a system for evaluating and hedging interest rate risk, including various interest rate scenarios?	N/A																																												
		BF13	Is there a system for monitoring repayment, terms and conditions of debt?	N/A																																												
		BF14	Is there a high level understanding of financing plan(s)?	N/A	6.3																																											
		BF15	Is there a overall understanding of financing plan(s) by various levels within DOE-HQ and ORP?	N/A	6.3																																											
		BF16	Has there been an Independent review of the financing assumptions?	N/A																																												
		BF17	Have Probabilistic rate estimates been performed?	N/A																																												
		BF18	Is there a mechanism for evaluating benefits vs. costs of private financing?	N/A																																												
		BF19	Is there a ceiling on what you are willing to pay for private financing? How was this determined?	N/A																																												
	Budget																																														
B3	Is the Budget sufficient to fund the project?	BF20	Are both DOE-HQ and ORP engaged in the Request for Budget Authority (BA)?	N/A	6.1																																											
		BF21	Will the Budget Appropriation cover any unwind costs for the debt of any financial products used for hedging?	N/A																																												
		BF22	Does the budget request match the requirements of the bidder?	N/A	6.1																																											
		BF23	Is there an Appropriation Schedule which matches the terms of the project??	N/A	6.1																																												
		BF24	Are there funding baselines and time lines in the budget appropriation for each entity?	N/A	6.1																																												
		BF25	Have Contingencies been considered?	N/A																																													
		BF26	Have Cancellation Terms been considered?	N/A																																													
		BF27	Has a Probabilistic appropriations schedule been developed?	N/A																																												
		BF28	Is there a method to track cost against budget and work progress?	N/A	5.2.8																																											
		BF29	Have Probabilistic cost estimates been developed?	N/A																																												
		BF30	Is there a standard against which costs are measured?	N/A																																												
	Risk Analysis																																														
B4	Is a detailed risk analysis being performed by ORP?	BF31	Are the assumptions and assumed probabilities of events occurring consistent? Realistic? Complete?	N/A	8.1																																											
		BF32	Have all assumptions been reviewed with appropriate parties?	N/A	8.1																																											

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets)
Business and Finance (2 Sheets)

Level	Criteria	LOI #	Lines of Inquiry	CRAD(s)	
	Business & Finance	BF33	Has the Contractor Risk been analyzed?	N/A	
		BF34	Has the DOE Risk been analyzed?	N/A	8.1
		BF35	Has the Appropriation risk been analyzed?	N/A	
		BF36	Has the Default risk and its impact been analyzed?	N/A	
	Contracting				
	Is there a contracting strategy?	BF37	Is there documentation supporting the contractual method and is it compliant with the Congressional directive?	N/A	1.7
		BF38	Who approves or reviews the input for the Monte Carlo analysis?	N/A	8.1
		BF39	What measures have been considered to mitigate risk?	N/A	8.1
		BF40	How do other areas input into the contracting negotiations?	N/A	
		BF41	Are there elements which are not negotiable?	N/A	
		BF42	Is there a schedule to keep personnel up to date during contract negotiations?	N/A	
		BF43	Is DOE-Legal involved in all aspects of the contract, including contract negotiations?	N/A	
	Legal				
B5	Are all aspects of the project reviewing legal review?	BF44	Have DOE-HQ and ORP considered the type and form of Contractor Debt Credit Support?	N/A	
		BF45	Who will draft the "Opinion Letter"?	N/A	
		BF46	Who will sign the "Opinion Letter"?	N/A	
		BF47	Will the "DOE Undertaking" be available for financial institutions that provide credit support to any short-term debt issues?	N/A	
		BF48	Will the "DOE Undertaking" be available for financial institutions that provide credit support to any financial hedging products?	N/A	
		BF49	Is DOE using outside counsel? If so please identify.	N/A	
		BF50	What is DOE-Legal's involvement with respect to other commitments being made, i.e. environmental, regulatory, etc.?	N/A	
	Resources				
B6	Have staffing needs been identified?	BF51	Have you located personnel with the necessary skills for financing evaluation?	N/A	6.1.5
		BF52	Is there back-up identified and in place for key positions?	N/A	
		BF53	Have outside professional services been considered in all key areas such as legal, finance, etc.?	N/A	
		BF54	Most major transactions have an "all hands" listing that contains all names, contact addresses and phone numbers for the team(s). Where is such a list for this project?	N/A	
		BF55	Is there a budget for additional or external resources?	N/A	
	Management				
B7	Is there a management structure in place?	BF56	Is there a work breakout structure defining clear lines of authority?	N/A	1.1.2
		BF57	Who establishes negotiation position on key issues?	N/A	
		BF58	Most major projects have a detailed (closing schedule) taking it from conception to closing. Where is the timeline for this project?		
		BF59	Hanford has a traditional or functional organization chart, but the project appears to operate on a "matrix management" system. Where is the "matrix management" chart?		
		BF60	Has the Office of River Protection (ORP) developed a Project Tracking System?	N/A	
		BF61	Is there a Change Control Process?	N/A	1.4

Implementation Document

Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1861	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1862	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1775	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt.Procedure HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1847	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AGA's and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6115	HNF PROs, POS, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5536	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets)
Waste Processing (3 Sheets)

Level	Waste Processing	LOI #	Lines of Inquiry	CRAD(s) CHG	CRAD(s) DOE/ ORP	RPP Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-6017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1661	ILAW Disposal Plan HNF-1917	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	IHLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-5114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level 1 Logics	AGA's and Trends Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5928	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SrRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Rel. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
	Documentation			CHG	DOE/ ORP	Implementation Document																																							
W1	Are the Process Verification Testing and Product Qualification deliverables completed and available?	NW1	Does the Process Verification Testing Program cover the appropriate range of activities?	3.6												x	x					x				x				x														FY 2000 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, HNF-4048 Test and Evaluation Master Plan, HNF-2029
		NW2	Does the Product Qualification testing meet the testing requirements of the 4 feed envelopes?	3.6												x	x					x								x														FY 2000 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, HNF-4048 Test and Evaluation Master Plan, HNF-2029
		NW3	Are these programs linked to the overall schedule in sufficient detail to permit good analysis of program requirements?	4.10																		x				x						x											
		NW4	Have the appropriate QA checks been incorporated to assure traceable documentation?	7.8												Sec. 1.2																				x							
W2	Have the functional requirements for the processing facility been defined?	NW5	Are the functional requirements applicable to the appropriate design areas?	3.1.1													x					x																					Test and Evaluation Master Plan, HNF-2029
		NW6	Review functional requirements for a selected portion of the process.	3.1.1													x																										Test and Evaluation Master Plan, HNF-2029 Level 1 & 2 specs Functional Design Criteria Design Requirements documents
W3	Are all the codes and standards to be utilized in the facility design established?	NW7	Are the codes and standards for all design disciplines included?														x				x																					Level 1 & 2 specs Functional Design Criteria Design Requirements documents
W4	Is the Engineering and Design Standards Requirements Document completed and available?	NW8	Are all of the disciplines covered in the Standards Document?																		x																					
		NW9	Are the documents readily available to the using personnel?						Vol I, Sec 2.2												x															x							RPP-PRO-210, Records Management
W5	Are the Functional Specifications completed and available?	NW10	Are the Functional specifications sufficiently detailed to assure good design direction?	3.1.1 3.2.1													x					x																				
		NW11	Are the documents readily available to the using personnel?	3.2					Vol I, Sec 2.2													x															x							RPP-PRO-210, Records Management
W6	Has the Performance Assessment Program for LAW been approved?	NW12	Is the document approved?	3.7																																							WFD TPM Assessment Plan (HNF-3943) Complete in FY00
		NW13	Does the document cover all the segments of the waste disposal site requirements?	3.7																																							WFD TPM Assessment Plan (HNF-3943) Complete in FY00
		NW14	Has implementation logic been developed that delineates tasks and responsibilities?	3.7																						x				x													
W6A	Is there a formal Configuration Control Program	NW56	Does the process cover all project aspects					x	Vol VIII, Sec 3.1							x				x																								HNF-IP-0842, Vol. IV, sec. 4.29, Eng. Doc. Change Control
			Does it include a safety review						Vol VIII, Sec 1.1				x							x																								USQ
	Delivery of Waste																																											
W7	Is the level of funding for CHG adequate to support TWRS waste processing?	NW15	Does the cost profile appear consistent with the scheduled activities?		6.1																		x			x						x							x			
W8	Are the staffing/personnel levels projected adequate to support the TWRS waste processing?	NW16	Does the split of disciplines appear appropriate?	4.8 7.6.3															x																							

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets) Waste Processing (3 Sheets)

Level			LOI #	Lines of Inquiry	CRAD(s)		RPP Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-4017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1981	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1722	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1682	HLW Storage Plan HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.8	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1947	Technical Baseline Summ. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AQAs and Trade Studies	RPP, FY2000 MYWP Summary, RPP-5044	MOAs	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6173	Memo of RTP w/Phase 1, RPP-6118	HNF PRDs, PDLs, & MPs, RPP PRDs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5742 & -5836	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SRID, HNF-SD-MP-SRID-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-012	Comments
			NW17	What level of site staff support (FD) is required?	N/A																									X													X		MOAs define scope of work vice staffing
W9		Have the four (4) waste envelopes been qualified for waste processing?	NW18	Is the characterization of the early tanks complete? Does the schedule for the other tanks appear appropriate?	3.6 4.1		X			X															X		X		X		X													FY 2000 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, HNF-4048
			NW19	Have samples been taken and waste forms prepared from the candidate tanks?	3.6																				X				X														
W10		Is the waste feed delivery system (pipeline feed) design completed?	NW20	Do pipelines exist for the early transfer requirements? If not, are they scheduled for completion?	3.3					X															X				X			X												
			NW21	Do the rest of the facility requirements appear to be in line with the use requirements?	1.1			X																					X	X		X												
	Waste Processing																																												
W11		Is there a formalized technical logic outlining the approach to deal with the critical issues associated with processing the TWRS wastes?	NW22	Are the technical programs scheduled to resolve deficiencies inline with the system requirements?	3.1.3		X	X										X	X			X						X			X	X												
W12		Is a complete process flow sheet available for waste processing?	NW23	Does an integrated material balance exist including recycle streams?																																	X				X		
			NW24	Are critical process data available for process control?																																	X				X		
W13		Have other major internal and external technical reviews been conducted to date on the TWRS waste processing? Are summaries of the findings available? Is there a formalized system to track and respond to comments and recommendations?	NW25	Do the dispositions appear appropriate for the concern?				X										X										X			X			X	X							RPP RTP-2 Internal Independent Review Team final Report, HNF-5835 HNF-PRO-653, Deficiency Tracking System
			NW26	Does the program follow the recommendations through to implementation actions?				X										X	X														X									RPP RTP-2 Internal Independent Review Team final Report, HNF-5835 HNF-PRO-653, Deficiency Tracking System
			NW27	Review actions taken as a result of earlier independent reviews and operating experience from other DOE sites.				X																									X	X								RPP RTP-2 Internal Independent Review Team final Report, HNF-5835 Letter report, 8 items list from RTP-1 HNF-PRO-653, Deficiency Tracking System
	Permitting																																												
W14		Has the waste delisting process been defined?	NW28	Is the plan sufficient to meet schedule needs?	N/A																																							
			NW29	Are the appropriate groups involved with plan resolutions?	N/A																																							
W15		Is it anticipated that the treated waste will meet Land Disposal Restrictions?	NW30	Does the plan meet the regulations?	N/A																																							
			NW31	Is the schedule timing consistent with the Integrated Schedule?	N/A																																							
W16		Has the waste acceptance criteria for LAW been defined?	NW32	Is the criteria in line with the Performance Assessment requirements?	7.7																																X							
			NW33	Is the schedule timing consistent with the Integrated Schedule?	4.10																				X																		
			NW34	Is there a schedule for permitting of all new facilities and facilities which require permit modification?	4.10 7.7																				X																		HNF-2401
	Program Management																																											
W17		Has integration of design/operation/support been established?	NW35	At what point in the design is RAMI implemented?	7.6.3				Vol. VI, Sec 3.2										X			X														X								RPP-PRO-1999, Construction Program Conceptual Phase
			NW36	What are frequency of reviews? Are formal minutes kept?	7.6.2																																						
			NW37	Is a list of open items kept and dispositioned?	7.6.2				Vol I, Sec 2.4																																					
W18		Is there an integrated program schedule which indicates the key activities of all the organizations involved in the ORP waste processing program?	NW38	How are they integrated into the design needs?	7.6.3																				X																		

Table 4. External Independent Review Team Line of Inquiry to CHG Deliverables Crosswalk. (18 Sheets)
Waste Processing (3 Sheets)

Level	Waste Processing	LOI #	Lines of Inquiry	CRAD(s)	RPP Mission Analysis Report, DOE/ORP-2000-10	Draft Project Execution Plan, HNF-5017	RPP Administration, HNF-IP-0842	Waste Feed Delivery Plan, HNF-1861	ILAW Disposal Plan HNF-1517	AB Amendment Task Plan HNF-1725	Health and Safety Program Description HNF-IP-0842, Vol. IX	Infrastructure Plan HNF-1882	HLW Storage Plan, HNF-1751	Environmental Program Description, RPP-1773	QA Program Description HNF-IP-0842, Vol. XI	Sys. Eng. Mgmt Plan HNF-SD-WM-SEMP-002	Risk Mgmt Procedure, HNF-IP-0842, Vol. IV, Sec 2.6	HR Staffing Plan, RPP-6114	Configuration Mgmt. Plan HNF-1900	Engineering Plan HNF-1847	Technical Baseline Sum. Desc. HNF-1901	Programmatic Baseline Summary HNF-1946	Level 0 Logics	Level I Logics	AQA's and Trade Studies	RPP, FY2002 MYWP Summary, RPP-5044	MOA's	TBRs	ICDs	IPTs	Acquisition and Contracting Plan, RPP-6113	Memo of RTP w/Phase 1, RPP-6118	HNF PROs, POLs, & MPs, RPP PROs	Tri-Party Agreement	ISMS Description, RPP-MP-003	Mission Summary Diagram, RPP-5743 & -5835	Project Execution/Management Plans	Financial Analysis, HNF-2017	Project System Engineering Documents	TWRS SPMD, HNF-SD-MP-SPMD-001	RPP Major Facility Technical Interface Ref. Key	Operations and Utilization Plan, RPP-SD-WM-SP-014	Comments
		NW39	How are they integrated into the overall schedule?	4.10																		X																			
		NW40	Are there any significant open items/technical issues unresolved?	7.6																											X										
W20	Are clear lines of authority/responsibility for each ORP organization/entity established and documented?	NW41	Have the responsibilities for each organization been delineated?	1.3		X	Vol I, Sec 3																																			
		NW42	Are the authority/responsibility relationships appropriate for prompt resolution of problems?	1.3 7.6.3		X	Vol I, Sec 3																																			
		NW43	At what level of the organization are team coordinations formalized?	7.6.3			Vol I, Sec 3																																			
	Program Integration																																									
W21	Are detailed interface agreements between the various entities involved in the waste processing defined and documented?	NW44	Are procedures formalized to ensure proper involvement at all steps of R&D?	1.5 2.2.1 3.1.3 4.9																		X																			
		NW45	Are R&D sub contractors controlled through formalized scopes of work?	2.2.1 3.1.3																											X		X								CH2M HILL Hanford Group, Inc. Corporation Acquisition Plan, (CHG-0001343) March 14, 2000 RPP-PRO-186, Preparing a Statement of Work for Services
		NW46	Is there a formalized interface agreement between all disciplines?	1.5 4.9																								X		X	X									
		NW47	Are cross-cut teams appointed to process areas to minimize rework?	1.5 4.9																											X				X					CH2M HILL Hanford Group, Inc. Corporation Acquisition Plan, (CHG-0001343) March 14, 2000
	Project Personnel																																									
W22	Are current projected levels of staff adequate to fulfill the requirements of the TWRS waste processing program?	NW48	Does a resource loaded schedule exist? Does it meet project decision point requirements?	4.5.3 4.8.1																X			X																		
		NW49	What are staffing plans as project progresses?	4.8.1																X																					
W23	Will staff have appropriate level of training and education to fulfill project requirements?	NW50	Are the organizations self supporting in their needs?	4.8.1																X																					
		NW51	What is the manager to supervisor ratio?	4.8.1																X																					
		NW52	What is the supervisor to worker ratio?	4.8.1																X																					
		NW53	What is the technician/draftsman support level?	4.8.1																X																					
		NW54	What is the administrative support percentage?	4.8.1																X																					
		NW55	Are there formalized training programs for the respective functions?	4.8.1																X																					

Table 4 - EIR LOI Crosswalk

Table 2 - DOE Order 425.1
Crosswalk

Table 3 - ICD Crosswalk