

# **Annual Hanford Site Environmental Permitting Status Report**

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## ANNUAL HANFORD SITE ENVIRONMENTAL PERMITTING STATUS REPORT

### EXECUTIVE SUMMARY

The information contained in, and/or referenced in, this *Annual Hanford Site Environmental Permitting Status Report* addresses Permit Condition II.W (Other Permits and/or Approvals) of the *Dangerous Waste Portion of the Resource Conservation and Recovery Act Permit for the Treatment, Storage, and Disposal of Dangerous Waste*, issued by the Washington State Department of Ecology (WA7890008967). Condition II.W specifies that the Permittees are responsible for obtaining all other applicable federal, state, and local permits authorizing the development and operation of the Hanford Facility. Condition II.W further specifies that the Permittees are to use their best efforts to obtain such permits. For the purposes of this Permit Condition, 'best efforts' mean submittal of documentation and/or approval(s) in accordance with schedules specified in applicable regulations, or as determined through negotiations with the applicable regulatory agencies.

This *Annual Hanford Site Environmental Permitting Status Report* includes updated information on all existing and anticipated environmental permitting. Environmental permitting required by the *Resource Conservation and Recovery Act*, the *Hazardous and Solid Waste Amendments of 1984*, and non-RCRA permitting (solid waste handling, *Clean Air Act Amendments of 1990*, *Clean Water Act Amendments of 1987*, Washington State waste discharge, and onsite sewage system) is addressed.

Compliance with the *Clean Air Act* requires facility-specific and sitewide compliance activities. At the facility-specific level, each facility that emits constituents regulated by the *Clean Air Act* must comply as appropriate. This report identifies existing facility-specific and sitewide compliance activities and requirements.

The *Radioactive Air Emissions Program Permit* (FF-01) governs the operations of radioactive emissions sources that have the potential to emit radionuclides.

Title V of the *Clean Air Act* requires an air operating permit for major emitting facilities. For the purpose of Title V, the Hanford Site is considered a single facility. As such, the Hanford Site is considered a major source requiring one Title V permit. The Hanford Site Air Operating Permit is anticipated to be issued in late 1999.

The *Hanford Site National Pollutant Discharge Elimination System Permit* (WA-000374-3) and the *300 Area Treated Effluent Disposal Facility National Pollutant Discharge Elimination System Permit* (WA-002591-7) governing liquid process effluent discharges to the Columbia River were collected into a single modified Hanford Site National Pollutant Discharge Elimination System on May 5, 1999. Similarly, a review and evaluation of the storm water program determined the storm water program that manages the storm water outfalls is no longer regulated by the multi-sector National Pollutant Discharge Elimination System.

Consent Order DE 91NM-177, a legal document signed by the U.S. Department of Energy, Richland Operations Office and the Washington State Department of Ecology on December 23, 1991, provides compliance milestones for the liquid effluents discharged to the ground. These milestones were completed on April 1, 1999 with the Washington State Department of Ecology issuing *State Waste Discharge Permit* ST 4510. Other Hanford Site permitting addressed in this report includes *Resource*

*Conservation and Recovery Act* research, development, and demonstration; solid waste handling; onsite sewage system; and petroleum underground storage tanks.

Information is current as of July 31, 1999.



## ANNUAL HANFORD SITE ENVIRONMENTAL PERMITTING STATUS REPORT

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## ACRONYMS

ALARA	as low as reasonably achievable
CFR	Code of Federal Regulations
DOE	U.S. Department of Energy
DOE-RL	U.S. Department of Energy, Richland Operations Office
DW	dangerous waste
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ETF	Effluent Treatment Facility
GIP	General Information Portion
HF RCRA Permit	Hanford Facility Dangerous Waste Portion of the Resource Conservation and Recovery Act Permit for the Treatment, Storage, and Disposal of Dangerous Waste
RCRA	<i>Resource Conservation and Recovery Act of 1976</i>
TBD	to be determined
Tri-Party Agreement	<i>Hanford Federal Facility Agreement and Consent Order</i>
TSD	treatment, storage, and/or disposal
WAC	Washington Administrative Code
WDOH	Washington State Department of Health

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**1.0 RESOURCE CONSERVATION AND RECOVERY ACT  
OPERATIONAL TREATMENT, STORAGE, AND/OR DISPOSAL UNITS**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Hanford Facility

Issuance Date: 09/28/94

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

The initial HF RCRA Permit (Revision 0) was issued by Washington State Department of Ecology (Ecology) and the EPA on August 29, 1994, and became effective on September 28, 1994. The HF RCRA Permit governs all final status treatment, storage, and/or disposal (TSD) activities on the Hanford Facility. Revision 0 of the HF RCRA Permit (DW Portion) incorporated five TSD units. Revision 1 of the HF RCRA Permit (DW Portion) became effective on May 29, 1995, and incorporated five additional TSD units. Revision 2 of the HF RCRA Permit (DW Portion) became effective on September 28, 1995. Revision 3 of the HF RCRA Permit (DW Portion) became effective on December 26, 1996. Revision 3A (April 16, 1997) provided corrections to Revision 3 and maintained the same effective date. Revision 4A of the HF RCRA Permit became effective February 28, 1998. Revision 5 of the HF RCRA Permit became effective June 17, 1999. A HF RCRA permit modification package was submitted to Ecology in June 1999. The expectation is that Revision 6 of the HF RCRA Permit will be issued before December 31, 1999.

The permit is a single application organized into a General Information Portion (GIP) and the Unit-Specific Portion discussed in the previous paragraph. The purpose of the GIP is to provide an overview of the Hanford Facility and to provide general information for all units to aid in the permitting process.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 200 Area Effluent Treatment Facility

Issuance Date: 02/28/98

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 200 Area Effluent Treatment Facility (ETF) originally was submitted to Ecology and the EPA in June 1991. Five revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-50 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA on August 31, 1993. Subsequently, the 200 Area ETF and Liquid Effluent Retention Facility (LERF) Part B dangerous waste permit applications were combined into one Part B permit application, Revision 0. The LERF and ETF permit application was incorporated into the HF RCRA Permit (DW Portion), Revision 4A.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 204-AR Waste Unloading Station

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 204-AR Waste Unloading Station originally was submitted to Ecology and the EPA in November 1987. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The 204-AR Waste Unloading Station will be added to Revision 1 of the Hanford Facility Dangerous Waste Permit Application, Double-Shell Tank System documentation. The Double-Shell Tank System is scheduled to be incorporated into the HF RCRA Permit (DW Portion) in calendar year 2001.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 222-S Laboratory Complex

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 222-S Laboratory Complex originally was submitted to Ecology and the EPA on November 25, 1987. Seven revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-22 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in December 1991. The 222-S Laboratory Complex Part B permit application, Revision 1, is scheduled to be incorporated into the HF RCRA Permit (DW Portion) in calendar year 2000.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 242-A Evaporator

Issuance Date: 02/28/98

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 242-A Evaporator originally was submitted to Ecology and the EPA in September 1987. Seven revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-17 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in June 1991. The 242-A Evaporator Part B dangerous waste permit application documentation, Revision 1, was incorporated into the HF RCRA Permit (DW Portion) in Revision 4A.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 305-B Storage Unit

Issuance Date: 09/28/94

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 305-B Storage Unit originally was submitted to Ecology and the EPA in May 1988. One revision of the Part A, Form 3, dangerous waste permit application documentation has been submitted.

Tri-Party Agreement Milestone M-20-08 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in January 1990. Revision 2 of the 305-B Storage Unit Part B dangerous waste permit application documentation was incorporated into the HF RCRA Permit (DW Portion), Revision 0. Several Class 1 modifications have been submitted quarterly following incorporation of the unit.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 325 Hazardous Waste Treatment Units

Issuance Date: 01/28/98

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 325 Hazardous Waste Treatment Units (HWTUs) originally was submitted to Ecology and the EPA in May 1988. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-20 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in June 1992. The 325 Shielded Analytical Laboratory activities that operated under the Physical/Chemical Treatment Test Facilities Part A, Form 3, were added to the 325 HWTUs Part A, Form 3, on December 2, 1994. A tank system to collect discharges formerly made to the 300 Area Radioactive Liquid Waste System was added to the permit documentation in 1997. Revision 1 of the 325 HWTUs Part B dangerous waste permit application documentation was incorporated into the HF RCRA Permit (DW Portion), Revision 4. Several Class 1 modifications of the application documentation have been submitted quarterly following incorporation of the unit.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 600 Area Purgewater Storage and Treatment Facility

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 600 Area Purgewater Storage and Treatment Facility originally was submitted to Ecology and the EPA in February 1990. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The 600 Area Purgewater Storage and Treatment Facility currently is operational with no compliance issues during this reporting period.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Central Waste Complex

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Central Waste Complex originally was submitted to Ecology and the EPA in May 1988. Six revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-05 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in October 1991. Revision 1 of the Part B dangerous waste permit application documentation was submitted on June 1, 1998, for incorporation into the HF RCRA Permit (DW Portion) in Modification D. Extensive comments to draft permit conditions issued by Ecology were provided on November 9, 1998. Ecology subsequently withheld including the Part B dangerous waste permit application documentation from incorporation into the HF RCRA Permit, Modification D. Various replacement chapters and appendices were provided to Ecology on June 29, 1999, issuing the Part B dangerous waste permit application documentation for public comment.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( ☒ )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Double-Shell Tank System

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( ☒ )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Double-Shell Tank System originally was submitted to Ecology and the EPA in September 1987. Eight revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-16 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in June 1991. Workshops are ongoing with Ecology to finalize Revision 1 of the Double-Shell Tank System Part B dangerous waste permit application documentation. The Double-Shell Tank System is scheduled to be incorporated into the HF RCRA Permit (DW Portion) in calendar year 2001.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Grout Treatment Facility

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Grout Treatment Facility originally was submitted to Ecology and the EPA in September 1987. Five revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Part B dangerous waste permit application documentation originally was submitted to Ecology and the EPA on November 23, 1988. Per the Fourth Amendment of the Tri-Party Agreement, the Grout Treatment Facility has been placed in a standby mode. Ecology was notified on April 26, 1994 that all work on the Grout Treatment Facility Part B dangerous waste permit application documentation was discontinued.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Hanford Waste Vitrification Plant

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Hanford Waste Vitrification Plant originally was submitted to Ecology and the EPA in May 1988. Five revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Per Amendment Four of the Tri-Party Agreement, construction of a high-level waste vitrification plant, such as the Hanford Waste Vitrification Plant, was delayed until 2002 to accommodate changes in waste management planning and prioritization. Hot startup of a high-level waste vitrification plant has been delayed until 2009 (per Tri-Party Agreement Milestone M-51-03).

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Liquid Effluent Retention Facility

Issuance Date: 02/28/98

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Liquid Effluent Retention Facility (LERF) originally was submitted to Ecology and the EPA in February 1990. Six revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-47 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in June 1991. Subsequently, the LERF and 200 Area Effluent Treatment Facility (ETF) Part B dangerous waste permit applications were combined into one Part B permit application, Revision 0. The LERF/ETF permit application was incorporated into the HF RCRA Permit (DW Portion), Revision 4A.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Low-Level Burial Grounds

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, for the Low-Level Burial Grounds originally was submitted to Ecology and the EPA in October 1985. Eleven revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-06 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in December 1989. Submittal and incorporation of a revised Part B permit has been delayed pending finalization of the *Hanford Solid Waste Environmental Impact Statement*.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( ☒ )

Renewal ( ☐ )

New Permit ( ☐ )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: PUREX Storage Tunnels

Issuance Date: 12/26/96

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ☐ ) No ( ☒ )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the PUREX Storage Tunnels originally was submitted to Ecology and the EPA in November 1987. Five revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-11 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in September 1990. Revision 3 of the PUREX Storage Tunnels Part B dangerous waste permit application documentation was submitted to Ecology on July 26, 1996. The PUREX Storage Tunnels were incorporated into the HF RCRA Permit (DW Portion), Revision 3. Revision 4 of the PUREX Storage Tunnels Part B dangerous waste permit application documentation was submitted to Ecology on April 14, 1997, and identified deactivation activities at the PUREX Plant and provided a revised inventory.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Sodium Storage Facility and Sodium Reaction Facility

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Sodium Storage Facility and Sodium Reaction Facility originally was submitted to Ecology and the EPA on May 1, 1995. One revision of the Part A, Form 3, dangerous waste permit application documentation has been submitted.

Construction of the Sodium Storage Facility has been completed, but no waste management activities have taken place. The unit was designed and constructed as a RCRA-compliant unit.

Shutdown of the Fast Flux Test Facility began in 1993. However, Fast Flux Test Facility was placed in standby in December 1996. The original intent was to transfer the metallic sodium to the Sodium Storage Facility and store as product. Plans to transfer the sodium to the Sodium Storage Facility were halted pending a decision by DOE on the future status of the Fast Flux Test Facility.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: T Plant Complex

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the T Plant Complex originally was submitted to Ecology and the EPA in November 1987. Seven revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-51 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in December 1995. The T Plant Complex is scheduled to be incorporated into the HF RCRA Permit (DW Portion) in calendar year 2002.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Plutonium Finishing Plant Treatment Unit

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, Revision 0 for the Plutonium Finishing Plant Treatment Unit was submitted to Ecology on December 23, 1998.

No treatment activities have taken place at the unit following submittal of the Part A, Form 3. The Plutonium Finishing Plant currently is preparing documentation in support of eventual treatment of plutonium bearing materials at the unit. Currently, no Part B is planned for the unit, nor is incorporation into the HF RCRA Permit.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Waste Receiving and Processing

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for Waste Receiving and Processing (WRAP) Facility originally was submitted to Ecology and the EPA in 1988. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-12 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in October 1991. Revision 1 of the Part B dangerous waste permit application documentation was submitted on June 1, 1998, for incorporation into the HF RCRA Permit (DW Portion) in Modification D. Extensive comments to draft permit conditions issued by Ecology were provided on November 9, 1998. Ecology subsequently withheld including the Part B dangerous waste permit application documentation from incorporation into the HF RCRA Permit, Modification D. Various replacement chapters and appendices were provided to Ecology on June 29, 1999, for issuing the Part B dangerous waste permit application documentation for public comment.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Waste Encapsulation and Storage Facility

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Waste Encapsulation and Storage Facility was submitted to Ecology and the EPA on December 19, 1997.

Two areas within the Waste Encapsulation and Storage Facility store capsules and/or unencapsulated salts. Pool cells provide underwater storage for radiological protection from the cesium-137 and strontium-90 capsules. Dry process cells provide interim dry storage of capsules and/or unencapsulated salts.

Schedule for submittal of the Part B permit application documentation is to be determined.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

**Permitted Unit: Immobilized High-Level Waste Storage Unit**

Issuance Date:

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

A notice of intent was issued in January 1999. The Part A, Form 3, was submitted to Ecology on June 30, 1999.

The Immobilized High-Level Waste Interim Storage Unit is located in the Canister Storage Building in the 200 East Area. The storage process is scheduled to begin operations in February 2007. The interim storage unit will store canisters of vitrified mixed immobilized high-level waste from the treatment of Hanford Facility tank system waste. The vitrified mixed waste canisters eventually will be transported to an approved national geological repository for disposal.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

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**2.0 RESOURCE CONSERVATION AND RECOVERY ACT  
WITHDRAWAL REQUESTS AND PROCEDURAL CLOSURES**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA Procedural Closure

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 221-T Containment Systems Test Facility

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, and Part B dangerous waste permit application documentation for the 221-T Containment Systems Test Facility originally was submitted to Ecology and the EPA in November 1985. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

This unit was included in the withdrawal request package submitted to Ecology and the EPA on June 22, 1989, in fulfillment of Tri-Party Agreement Milestone M-20-45. The unit was closed in February 1999. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 02/22/99" to indicate procedural closure..

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA Procedural Closure

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 324 Pilot Plant

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 324 Pilot Plant originally was submitted to Ecology and the EPA in November 1985. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

This unit was included in the withdrawal request package submitted to Ecology and the EPA on June 22, 1989, in fulfillment of Tri-Party Agreement Milestone M-20-45. Ecology reviewed this submittal and requested additional information for this unit. In December 1989, additional information was submitted to Ecology in support of the withdrawal request. On August 8, 1996, Ecology inspected the 324 Pilot Plant and requested information necessary to support procedural closure. This information was provided to Ecology in three submittals dated August 12, September 5, and November 1, 1996. On February 20, 1997, Ecology notified DOE-RL that the documentation was complete. Subsequently, Ecology completed the administrative process. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 06/09/97" to indicate procedural closure.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA Procedural Closure

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 332 Storage Facility

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 332 Storage Facility originally was submitted to Ecology and the EPA in May 1988. No revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

This unit was included in the withdrawal request package submitted to Ecology and the EPA on June 22, 1989, in fulfillment of Tri-Party Agreement Milestone M-20-45. Ecology reviewed this submittal and requested additional information for this unit. In December 1989, additional information was submitted to Ecology in support of the withdrawal request. On August 8, 1996, Ecology inspected the 332 Storage Facility and requested information necessary to support procedural closure. This information was provided to Ecology in three submittals dated August 12, September 5, and November 14, 1996. Subsequently, Ecology completed the administrative process. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 04/21/97" to indicate procedural closure.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA Procedural Closure

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 437 Maintenance and Storage Facility

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, and Part B dangerous waste permit application documentation for the Maintenance and Storage Facility originally was submitted to Ecology and the EPA in November 1985. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-29 required submittal of revised Part B dangerous waste permit application documentation to Ecology and the EPA by November 30, 1993. Tri-Party Agreement change request M-20-92-6 was submitted to Ecology and the EPA in September 1992, which deferred the milestone. Regulator approval of the change request was received in October 1992. The Part A, Form 3, permit application was submitted to allow the treatment of sodium residues on waste components before disposal. The sodium removal system designed to perform this treatment was built, but never activated. The facility never operated as a TSD unit. In accordance with Section 6.3.3 of the Tri-Party Agreement, a procedural closure of the Part A permit application for Maintenance and Storage Facility was initiated in 1995 based on direction from the DOE to shutdown the Fast Flux Test Facility (FFTF). When DOE placed the Fast Flux Test Facility in standby in December of 1996, the procedural closure process halted. The future direction of 431 Maintenance and Storage Facility will be determined by the disposition of the Fast Flux Test Facility.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA Procedural Closure

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 1706-KE Waste Treatment System

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 1706-KE Waste Treatment System originally was submitted to Ecology in August 1986. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted. Part B dangerous waste permit application documentation was submitted to Ecology and the EPA in April 1987.

This unit was included in the withdrawal request package submitted to Ecology and the EPA on June 22, 1989, in fulfillment of Tri-Party Agreement Milestone M-20-45. Ecology reviewed this submittal and requested additional information for this unit. In December 1989, additional information was submitted to Ecology in support of the withdrawal request. Additional information was provided to Ecology in 1997. Ecology responded with a letter dated March 5, 1998 denying the procedural closure. Negotiations with Ecology are ongoing to close this unit under the *Comprehensive Environmental Response, Compensation, and Liability Act of 1980*.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA Procedural Closure

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 2727-WA Sodium Reactor Experiment Sodium Storage Building

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 2727-WA Sodium Reactor Experiment Sodium Storage Building originally was submitted to Ecology and the EPA in November 1987.

This unit was included in the withdrawal request package submitted to Ecology and the EPA on June 22, 1989, in fulfillment of Tri-Party Agreement Milestone M-20-45. This unit was closed in February 1999. The Part A, Form 3, dangerous waste permit application was stamped with "closed 02/22/99".

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA Procedural Closure

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Biological Treatment Test Facilities

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Biological Treatment Test Facilities originally was submitted to Ecology and the EPA in May 1988. No revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Procedural closure documentation, in accordance with Section 6.3.3 of the Tri-Party Agreement, was submitted in December 1995 to fulfill Milestone M-20-44. On July 11, 1996, Ecology notified DOE-RL that the documentation was complete. On December 10, 1996, Ecology completed the administrative process. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 12/10/96" to indicate procedural closure.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA Procedural Closure

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Physical and Chemical Treatment Test Facilities

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Physical and Chemical Treatment Test Facilities originally was submitted to Ecology and the EPA in May 1988. One revision of the Part A, Form 3, dangerous waste permit application documentation has been submitted.

Procedural closure documentation, in accordance with Section 6.3.3 of the Tri-Party Agreement, was submitted in September 1995 to fulfill Milestone M-20-43A. On January 25, 1996, Ecology notified DOE-RL that the administrative process was complete. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 05/13/96" to indicate procedural closure.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA Procedural Closure

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Thermal Treatment Test Facilities

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Thermal Treatment Test Facilities originally was submitted to Ecology and the EPA in May 1988. No revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Procedural closure documentation, in accordance with Section 6.3.3 of the Tri-Party Agreement, was submitted in September 1995 to fulfill Milestone M-20-42A. On January 25, 1996, Ecology notified DOE-RL that the administrative process was complete. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 05/13/96" to indicate procedural closure.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

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### **3.0. RESOURCE CONSERVATION AND RECOVERY ACT PERMITTING RESEARCH, DEVELOPMENT, AND DEMONSTRATION**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: U.S. Environmental Protection Agency, Region 10  
Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Waste Water Pilot Plant

Issuance Date: 05/04/94

Expiration Date: 06/06/98

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Work under the RD&D permit was completed in 1995. On April 21, 1997, a letter was submitted to Ecology initiating closure activities for the Waste Water Pilot Plant permitted areas.

The RD&D permit closure activities were completed in October 1997. In March 1998, Ecology acknowledged the unit was closed and the RD&D permit automatically expired on June 6, 1998.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

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#### **4.0 TOXIC SUBSTANCES CONTROL ACT PERMITTING**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( )

Permit Type: TSCA

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit Number:

Permitted Unit: Low-Level Burial Grounds

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Revision 2 of the *Request for Interim Approval to Operate Trench 94 of the 218-E-12B Burial Ground as a Chemical Waste Landfill for Disposal of Polychlorinated Biphenyl Waste in Submarine Reactor Compartments* was submitted to the EPA on June 10, 1994. This revision sought interim approval to operate a Toxic Substances Control Act chemical waste landfill for the disposal of polychlorinated biphenyl waste.

The EPA tentatively approved the chemical waste landfill request pending issuance of the Low-Level Burial Grounds Part B dangerous waste permit application documentation. The EPA determined that DOE-RL's documentation of compliance with WAC 173-303, which is equivalent to or more stringent than *Toxic Substances Control Act* chemical requirements, would be sufficient to show compliance with the *Toxic Substances Control Act* requirements. The Low-Level Burial Ground Part B permit application was scheduled for incorporation into the HF RCRA Permit (DW Portion) in Modification C, but was delayed pending finalization of the *Hanford Solid Waste Environmental Impact Statement*.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

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**5.0 RESOURCE CONSERVATION AND RECOVERY ACT TREATMENT,  
STORAGE, AND/OR DISPOSAL UNITS UNDERGOING CLOSURE OR CLOSED**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 100-D Ponds

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 100-D Ponds originally was submitted to Ecology and the EPA in August 1986. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-40 was satisfied with the submittal of the 100-D Ponds Closure Plan to Ecology and the EPA on February 26, 1993. The 100-D Ponds was incorporated into the HF RCRA Permit (DW Portion), Revision 5. Closure activity has been completed. Ecology has approved the closure certificate and the unit will be identified as closed.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 105-DR Large Sodium Fire Facility

Issuance Date: 09/28/95

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, and Part B dangerous waste permit application documentation for the 105-DR Large Sodium Fire Facility originally was submitted to Ecology and the EPA in November 1985. Subsequently, a decision was made to close this TSD unit. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-41 was satisfied with the submittal of the 105-DR Large Sodium Fire Facility Closure Plan to Ecology and the EPA in September 1990. The 105-DR Large Sodium Fire Facility Closure Plan was incorporated into Revision 2 of the HF RCRA Permit (DW Portion) that became effective on September 28, 1995.

Closure activities began in July 1995 and were completed in March 1996. Closure certification was submitted to Ecology on June 19, 1996, and Ecology accepted partial clean closure on July 16, 1996. The unit has been partially clean closed with the Part A, Form 3, revised to show the clean closed areas of the unit. The areas that were not cleaned closed will be remediated during decommissioning of the 105-DR reactor building and associated systems as stated in the *Engineering Evaluation/Cost Analysis for the 105-DR and 105-F Reactor Facilities and Ancillary Facilities* (DOE/RL-98-23, Rev. 0). During calendar year 1999, the HF RCRA Permit was modified to indicate that the unit had completed requirements in the closure plan.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 200 West Area Ash Pit Demolition Site

Issuance Date: 05/29/95

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, and Part B dangerous waste permit application documentation for the 200 West Area Ash Pit Demolition Site originally was submitted to Ecology and the EPA in November 1985. Subsequently, a decision was made to close this TSD unit. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-26 was satisfied with the submittal of the 200 West Area Ash Pit Demolition Site Closure Plan to Ecology and the EPA in November 1992. The 200 West Area Ash Pit Demolition Site Closure Plan was incorporated into Revision 1 of the HF RCRA Permit (DW Portion) that became effective on May 29, 1995. Closure certification was submitted to Ecology on September 22, 1995. On October 26, 1995, Ecology approved the clean closure certification. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 10/26/95".

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 216-B-3 Expansion Ponds

Issuance Date: 05/29/95

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Originally the 216-B-3 Expansion Ponds were included with the 216-B-3 Pond Main Lobe, in a single Part A, Form 3, dangerous waste permit application documentation. In December 1993, the 216-B-3 Pond System Part A, Form 3, dangerous waste permit application documentation was separated into two Part A, Form 3s: one for the 216-B-3 Expansion Ponds and one for the 216-B-3 Main Pond and 216-B-3-3 Ditch. Part A, Form 3, dangerous waste permit application and closure plan documentation for the 216-B-3 Expansion Ponds were submitted to Ecology and the EPA on December 16, 1993.

The 216-B-3 Expansion Ponds Closure Plan was incorporated into Revision 1 of the HF RCRA Permit (DW Portion) May 29, 1995. Closure certification was submitted to Ecology on June 14, 1995. On June 27, 1995, Ecology approved the clean closure certification. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 06/27/95".

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for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 218-E-8 Borrow Pit Demolition Site

Issuance Date: 05/29/95

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, and Part B dangerous waste permit application documentation for the 218-E-8 Borrow Pit Demolition Site originally was submitted to Ecology and the EPA in November 1985. Subsequently, a decision was made to close this TSD unit. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-28 was satisfied with the submittal of the 218-E-8 Borrow Pit Demolition Site Closure Plan to Ecology and the EPA in November 1992. The 218-E-8 Borrow Pit Demolition Site Closure Plan was incorporated into Revision 1 of the HF RCRA Permit (DW Portion) that became effective on May 29, 1995. Closure certification was submitted to Ecology on September 22, 1995. On October 26, 1995, Ecology approved the clean closure certification. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 10/26/95".

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 300 Area Solvent Evaporator

Issuance Date: 09/28/94

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 300 Area Solvent Evaporator originally was submitted to Ecology and the EPA in November 1985. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The 300 Area Solvent Evaporator Closure Plan was submitted to Ecology and the EPA in February 1989. Revision 3B of the 300 Area Solvent Evaporator Closure Plan was incorporated into the HF RCRA Permit (DW Portion) that became effective on September 28, 1994. Closure certification was submitted to Ecology on May 25, 1995. On June 27, 1995, Ecology approved the clean closure certification. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 06/27/95".

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 300 Area Waste Acid Treatment System

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 300 Area Waste Acid Treatment System originally was submitted to Ecology and the EPA in September 1987. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-10 was satisfied with the submittal of the 300 Area Waste Acid Treatment System Closure Plan to Ecology and the EPA in June 1990. Revision 2 of the 300 Area Waste Acid Treatment System closure plan was submitted to Ecology in May 1999 for inclusion into the HF RCRA Permit (DW Portion).

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for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 303-K Storage Facility

Issuance Date: 12/26/96

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 303-K Storage Facility originally was submitted to Ecology and the EPA in August 1987. Five revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-13 was satisfied with the submittal of the 303-K Storage Facility Closure Plan to Ecology and the EPA in April 1990. The 303-K Storage Facility was incorporated into Revision 3 of the HF RCRA Permit (DW Portion) in December 1996. Closure activities began in October 1997. A report was issued July 1998 summarizing closure activities (HNF-2959). An annual closure activities report for fiscal year 1999 is in preparation.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( ☒ )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 304 Concretion Facility

Issuance Date: 09/28/95

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( ☒ )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 304 Concretion Facility originally was submitted to Ecology and the EPA in August 1986. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-15 was satisfied with the submittal of the 304 Concretion Facility Closure Plan to Ecology and the EPA in April 1990. The 304 Concretion Facility Closure Plan was incorporated into Revision 2 of the HF RCRA Permit (DW Portion) on September 28, 1995. Closure certification was submitted to Ecology on October 27, 1995. On November 30, 1995, Ecology approved the clean closure certification. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 11/30/95".

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 2101-M Pond

Issuance Date: 05/29/95

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 2101-M Pond originally was submitted to Ecology and the EPA in August 1986. Two revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-04 was satisfied with the submittal of the 2101-M Pond Closure Plan to Ecology and the EPA in September 1989. Revision 2 of the closure plan was submitted on June 30, 1993. The 2101-M Pond Closure Plan was incorporated into Revision 1 of the HF RCRA Permit (DW Portion) on May 29, 1995. Closure certification was submitted to Ecology on September 22, 1995. On October 26, 1995, Ecology approved the clean closure certification. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 10/26/95".

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 2727-S Storage Facility

Issuance Date: 09/28/94

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 2727-S Storage Facility originally was submitted to Ecology and the EPA in November 1985. Two revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The 2727-S Storage Facility Closure Plan originally was submitted to Ecology and the EPA in February 1989. Revision 3 of the 2727-S Storage Facility Closure Plan was incorporated into Revision 0 of the HF RCRA Permit (DW Portion) on September 28, 1994. Closure certification was submitted to Ecology on May 25, 1995. On June 27, 1995, Ecology approved the clean closure certification. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 06/27/95".

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 3718-F Alkali Metal Treatment and Storage Facility

Issuance Date: 12/26/96

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, and Part B dangerous waste permit application documentation for the 3718-F Alkali Metal Treatment and Storage Facility originally was submitted to Ecology and the EPA in November 1985. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-18 was satisfied with the submittal of the 3718-F Alkali Metal Treatment and Storage Facility Closure Plan in December 1991. The 3718-F Alkali Metal Treatment and Storage Facility was incorporated into the HF RCRA Permit (DW Portion) in December 1996. On August 4, 1998, Ecology approved the closure of the facility. The Part A, Form 3, dangerous waste permit application was stamped "closed 08/04/98".

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 4843 Alkali Metal Storage Facility

Issuance Date: 12/26/96

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 4843 Alkali Metal Storage Facility originally was submitted to Ecology and the EPA in September 1987. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The initial submittal of the 4843 Alkali Metal Storage Facility Closure Plan occurred in June 1991. The 4843 Alkali Metal Storage Facility was incorporated into the HF RCRA Permit (DW Portion) December 1996. On April 14, 1997, Ecology approved the clean closure certification. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 04/14/97".

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Hanford Patrol Academy Demolition Sites

Issuance Date: 09/28/85

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, and Part B dangerous waste permit application documentation for the Hanford Patrol Academy Demolition Sites originally was submitted to Ecology and the EPA in November 1985. Subsequently, a decision was made to close this TSD unit. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-25 was satisfied with the submittal of the Hanford Patrol Academy Demolition Sites Closure Plan to Ecology and the EPA in November 1992. The Hanford Patrol Academy Demolition Sites Closure Plan was incorporated into Revision 2 of the HF RCRA Permit (DW Portion) on September 28, 1995. Closure certification was submitted to Ecology on September 22, 1995. On October 26, 1995, Ecology approved the clean closure certification. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 10/26/95".

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Simulated High-Level Waste Slurry Treatment/Storage

Issuance Date: 05/29/95

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Simulated High-Level Waste Slurry Treatment/Storage originally was submitted to Ecology and the EPA in May 1988. Two revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-19 was satisfied with the submittal of the Simulated High-Level Waste Slurry Treatment/Storage Closure Plan to Ecology and the EPA in September 1989. Revision 6 of the closure plan was submitted to Ecology and the EPA on July 29, 1994. The Simulated High-Level Waste Slurry Treatment/Storage Closure Plan was incorporated into Revision 1 of the HF RCRA Permit (DW Portion) on May 29, 1995. Closure certification was submitted to Ecology on August 27, 1995. On September 6, 1995, Ecology approved the clean closure certification. The Part A, Form 3, dangerous waste permit application documentation was stamped with "closed 09/06/95".

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

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## **6.0 RESOURCE CONSERVATION AND RECOVERY ACT PLANNED CLOSURES**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 207-A South Retention Basin

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 207-A South Retention Basin originally was submitted to Ecology and the EPA in February 1990. Revision 2 of the Part A, Form 3, dangerous waste permit application documentation was submitted in October 1996.

A Tri-Party Agreement change request was approved (M-20-97-01) to coordinate the 207-A South Retention Basin closure plan with the past-practice documentation for the 200 Area Plateau. Closure of this unit will be coordinated through the M-13-24 milestone.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 216-A-10 Crib

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 216-A-10 Crib originally was submitted to Ecology and the EPA in August 1987. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-33 requires submittal of the 216-A-10 Crib Closure and Postclosure Plan to Ecology, coordinated with the work plan for the Uranium Rich Process Waste Group.

As planned, the closure plan for 216-A-10 Crib will be included in the HF RCRA Permit in calendar year 2005.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 216-A-29 Ditch

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 216-A-29 Ditch originally was submitted to Ecology and the EPA in August 1986. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The 216-A-29 Ditch Closure Plan originally was submitted to Ecology and the EPA in February 1988. Tri-Party Agreement Milestone M-20-36 was satisfied on April 3, 1995, with the submittal to Ecology and the EPA of the 216-A-29 Ditch Closure and Postclosure Plan coordinated with the past-practice documentation for the 200-CS-1 Operable Unit. The 216-A-29 Ditch is scheduled to be incorporated in the HF RCRA Permit (DW Portion) in calendar year 2003.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 216-A-36B Crib

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 216-A-36B Crib originally was submitted to Ecology and the EPA in February 1988. One revision of the Part A, Form 3, dangerous waste permit application documentation has been submitted.

The 216-A-36B Crib Closure Plan originally was submitted to Ecology and the EPA in February 1988. Tri-Party Agreement Milestone M-20-33 required submittal of an updated closure and postclosure plan to Ecology, coordinated with the work plan for the Uranium Rich Process Waste Group.

The closure and postclosure plan will be included in the HF RCRA Permit (DW Portion) in calendar year 2005.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 216-A-37-1 Crib

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 216-A-37-1 Crib originally was submitted to Ecology and the EPA in February 1990. Two revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-52 was established to coordinate the 216-A-37-1 Crib Closure and Postclosure Plan with the work plan for the General Process Waste Group. It is anticipated that this documentation will be included in the HF RCRA Permit (DW Portion) in calendar year 2005.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( ☒ )

Renewal ( ☐ )

New Permit ( ☐ )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 216-B-3 Main Pond and 216-B-3-3 Ditch

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ☐ ) No ( ☒ )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Originally the 216-B-3 Expansion Ponds were included with the 216-B-3 Pond Main Lobe, in a single Part A, Form 3, dangerous waste permit application documentation. In December 1993, the 216-B-3 Pond System Part A, Form 3, was separated into two Part A, Form 3s: one for the 216-B-3 Expansion Ponds and one for the 216-B-3 Main Pond and 216-B-3-3 Ditch. Five revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-13-07 directed the closure of the 216-B-3 Main Pond and 216-B-3-3 Ditch be coordinated with RCRA past-practice activities at the 200-BP-11 Operable Unit. The coordinated work and submittal of the closure plan were completed September 30, 1994. To address the recently increased scope of the 200-CW-1 Operable Unit, draft B of the document was submitted to Ecology and the EPA in April 1995 to meet Milestone M-20-36. The 216-B-3 Main Pond and 216-B-3-3 Ditch closure documentation is scheduled to be incorporated into the HF RCRA Permit (DW Portion) in calendar year 2003.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology  
U.S. Environmental Protection Agency, Region 10

Permit Number: WA7890008967

Permitted Unit: 216-B-63 Trench

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 216-B-63 Trench originally was submitted to Ecology and the EPA in August 1986. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The 216-B-63 Trench Closure Plan was submitted to Ecology and the EPA in April 1987. A Tri-Party Agreement change request was approved to coordinate the closure plan with the past-practice documentation for the 200-BP-11 Operable Unit. In March 1995, Draft B of the Work Plan for the 200-BP-11 Operable Unit was issued and incorporated the 216-B-63 Trench. This work plan integrates the TSD activities with the 200-BP-11 Operable Unit documentation and characterization. The 216-B-63 Trench is scheduled to be incorporated into the HF RCRA Permit (DW Portion) in calendar year 2003.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology  
U.S. Environmental Protection Agency, Region 10

Permit Number: WA7890008967

Permitted Unit: 216-S-10 Pond and Ditch

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 216-S-10 Pond and Ditch originally was submitted to Ecology and the EPA in February 1987. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The 216-S-10 Pond and Ditch Closure Plan was submitted to Ecology and the EPA in June 1987. Tri-Party Agreement Milestone M-20-39 requires submittal of an updated closure plan to Ecology in calendar year 2003.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 216-U-12 Crib

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 216-U-12 Crib originally was submitted to Ecology and the EPA in August 1987. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-37 was satisfied on June 27, 1995, with the submittal to Ecology and the EPA of the 216-U-12 Crib Closure and Postclosure Plan coordinated with the past-practice documentation for the 200-UP-2 Operable Unit. Currently, the 216-U-12 Crib is anticipated to be incorporated in the HF RCRA Permit (DW Portion) in calendar year 2005.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 224-T Transuranic Waste Storage and Assay Facility

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 224-T Transuranic Waste Storage and Assay Facility (224-T TRUSAF) originally was submitted to Ecology and the EPA in November 1987. Six revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-23 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in June 1992. A request was made during the quarter ending March 31, 1997, for a Class I Modification to the HF RCRA Permit. This request changed the submittal of 224-T TRUSAF Part B dangerous waste permit application documentation to submittal of a 224-T TRUSAF Closure Plan.

A memorandum of agreement was signed, a Tri-Party Agreement change request was prepared, and a draft closure plan was submitted during June 1999.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 241-CX Tank System

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 241-CX Tank System originally was submitted to Ecology and the EPA in July 1990. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-54 was established to coordinate the submittal of the closure/postclosure plan to Ecology with the work plan for the 200-IS-1 Operable Unit. The submittal date for this documentation is anticipated to occur in calendar year 2007.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 241-Z Treatment and Storage Tanks

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 241-Z Treatment and Storage Tanks originally was submitted to Ecology and the EPA in November 1987. Five revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-48 originally required submittal of the Part B dangerous waste permit application documentation for the 241-Z Treatment and Storage Tanks to Ecology by May 31, 1996. Renegotiated Milestone M-20-48A replaced Milestone M-20-48 and a closure plan was submitted to Ecology on December 27, 1996. A schedule for including this closure plan in the HF RCRA Permit has not been defined.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 303-M Oxide Facility

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 303-M Oxide Facility originally was submitted to Ecology and the EPA in May 1988. One revision of the Part A, Form 3, dangerous waste permit application documentation has been submitted.

Tri-Party Agreement Milestone M-20-30 required submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA by October 1992. A Tri-Party Agreement Change Request (M-20-92-05) was submitted to Ecology and the EPA to delete the existing milestone for submittal of the Part B dangerous waste permit application documentation. The Tri-Party Agreement Change Request was approved on December 15, 1993 and this unit will be integrated with the 300-FF-2 Operable Unit Work Plan.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 616 Nonradioactive Dangerous Waste Storage Facility

Issuance Date: 09/28/94

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, and Part B dangerous waste permit application documentation for the 616 Nonradioactive Dangerous Waste Storage Facility originally was submitted to Ecology and the EPA in November 1985. Seven revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-02 was satisfied with the submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA in July 1989. Revision 2 of the 616 Nonradioactive Dangerous Waste Storage Facility Part B dangerous waste permit application documentation was incorporated into Revision 0 of the HF RCRA Permit (DW Portion) that became effective on September 28, 1994. Several Class 1 modifications have been submitted quarterly and one Class 3 modification was submitted following incorporation. A revised closure plan (Chapter 11.0, Revision 2A) was submitted to Ecology as part of the Class 3 Modification E for the HF RCRA Permit.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 1301-N Liquid Waste Disposal Facility

Issuance Date: 06/17/99

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 1301-N Liquid Waste Disposal Facility originally was submitted to Ecology and the EPA in August 1986; documentation for the 1325-N Liquid Waste Disposal Facility originally was submitted in February 1987. Seven revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-31 required the submittal of an updated 1301-N and 1325-N Liquid Waste Disposal Facility Closure and Postclosure Plan. The 1301-N Liquid Waste Disposal Facility closure plan was incorporated into the HF RCRA Permit (DW Portion), Revision 5.

Closure activities are scheduled to begin in October 2001, or after closure of the 1325-N Liquid Waste Disposal Facility. The closure actions for this unit are being incorporated into the 100-N Area TSD record of decision.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 1324-N Surface Impoundment

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 1324-N Surface Impoundment originally was submitted to Ecology and the EPA in August 1986. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The closure plan was published as an attachment to the corrective measures study for the 100-N Area TSD units, which was issued in February 1998 as Revision 0. The 1324-N Surface Impoundment was incorporated into the HF RCRA Permit (DW Portion), Revision 5. Closure activities are scheduled to begin in July 2001. The closure actions for this unit are being incorporated into the 100-N Area TSD record of decision.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 1324-NA Percolation Pond

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 1324-NA Percolation Pond originally was submitted to Ecology and the EPA in August 1986. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The 1324-NA Percolation Pond Closure Plan originally was submitted to Ecology and the EPA in April 1987. The closure plan was published as an attachment to the corrective measures study for the 100-N Area TSD units, which was issued in February 1998 as Revision 0. The 1324-NA Percolation Pond was incorporated into the HF RCRA Permit (DW Portion), Revision 5. Closure activities are scheduled to begin in July 2001. The closure actions for this unit are being incorporated into the 100-N Area TSD record of decision.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 1325-N Liquid Waste Disposal Facility

Issuance Date: 06/17/99

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 1301-N Liquid Waste Disposal Facility originally was submitted to Ecology and the EPA in August 1986; documentation for the 1325-N Liquid Waste Disposal Facility originally was submitted in February 1987. Seven revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-31 required the submittal of an updated 1301-N and 1325-N Liquid Waste Disposal Facility Closure and Postclosure Plan to Ecology and the EPA. The 1325-N Liquid Waste Disposal Facility closure plan was incorporated into the HF RCRA Permit (DW Portion), Revision 5.

Closure is scheduled to begin in July 2000. The closure actions for this unit are being incorporated into the 100-N Area TSD record of decision.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Hexone Storage and Treatment Facility

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Hexone Storage and Treatment Facility originally was submitted to Ecology and the EPA in December 1987. Three revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-27 was satisfied with the submittal of the Hexone Storage and Treatment Facility Closure Plan to Ecology and the EPA in November 1992. The revised Hexone Storage and Treatment Facility closure plan is scheduled to be submitted in calendar year 2002.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: **Nonradioactive Dangerous Waste Landfill**

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, and Part B dangerous waste permit application documentation for the Nonradioactive Dangerous Waste Landfill originally was submitted to Ecology and the EPA in November 1985. Subsequently, a decision was made to close this TSD unit. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-07 was satisfied with the submittal of the Nonradioactive Dangerous Waste Landfill Closure and Postclosure Plan to Ecology and the EPA in August 1990. Ecology requested that the DOE-RL evaluate clean closure. All information requested on clean closure was reviewed by the regulatory agencies. Ecology issued partial Notice of Deficiency comments in January 1994 indicating that characterization data was needed to determine potential impacts to groundwater. A Notice of Deficiency response table was prepared to address the January 1994 comments. In April 1997, Ecology issued supplemental Notice of Deficiency comments. In June of 1997 an agreement was reached that additional characterization should take precedent over resolving the 1997 comments. A soil gas study was conducted in August and September of 1997. Ecology further requested that a detailed soil and groundwater survey be completed in 1999. Funding was not provided for this survey. Monitoring of the unit continues. The schedule for closure of this facility is pending.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999



## **7.0 RESOURCE CONSERVATION AND RECOVERY ACT POSTCLOSURE PLANS**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure/Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 183-H Solar Evaporation Basins

Issuance Date: 09/28/94

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 183-H Solar Evaporation Basins originally was submitted to Ecology and the EPA in November 1985. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

The 183-H Solar Evaporation Basins Closure Plan was submitted to Ecology and the EPA in June 1988. Revision 2 of the 183-H Solar Evaporation Basins Closure Plan was incorporated into the HF RCRA Permit (DW Portion) on September 28, 1994. This unit was certified as closed on July 26, 1996. Postclosure care is required under a modified closure option. A postclosure plan was incorporated in the HF RCRA Permit, Revision 3.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Postclosure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: 300 Area Process Trenches

Issuance Date: 12/26/96

Expiration Date: 09/27/2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the 300 Area Process Trenches originally was submitted to Ecology and the EPA in November 1985. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-32 was satisfied on August 15, 1994, with the submittal to Ecology and the EPA of an updated closure and postclosure plan. The 300 Area Process Trenches were incorporated into Revision 3 of the HF RCRA Permit (DW Portion) as a modified closure effective in December 1996. The conditions and requirements are contained in Part VI, Chapter 1 of the HF RCRA Permit (DW Portion). Certification of closure occurred in May 1998. The unit is undergoing postclosure care.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

## **8.0 PRECLOSURE AND CLOSURE WORK PLANS**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: B Plant Complex

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the B Plant Complex originally was submitted to Ecology and the EPA in November 1987. Six revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

B Plant Complex has been deactivated and will not require Part B dangerous waste permit application documentation. As part of the transition phase of decommissioning, Tri-Party Agreement Milestone M-20-21A was satisfied with a preclosure work plan (DOE/RL-98-12) submitted to Ecology in March of 1998.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: PUREX Plant

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the PUREX Plant originally was submitted to Ecology and the EPA in November 1987. Eight revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-24 required submittal of the Part B dangerous waste permit application documentation to Ecology and the EPA by September 1992. In December 1992, DOE-Headquarters determined that the PUREX Plant would no longer operate and directed the PUREX Facility to deactivate. Tri-Party Agreement Change Request M-80-94-01 was approved to support the PUREX Facility decommissioning and closure process. Tri-Party Agreement Milestone M-80-02 was fulfilled with the submittal of the following documentation: (1) PUREX Facility Preclosure Work Plan, July 12, 1996 (DOE/RL-95-78); (2) PUREX Facility Surveillance and Maintenance Plan, May 16, 1996 (DOE/RL-98-35); and (3) PUREX Facility End Point Criteria, June 21, 1995 (WHC-FB-WM-TPP-053). Submittal of the PUREX Facility Preclosure Work Plan fulfilled Tri-Party Agreement Milestone M-20-24A. On May 8, 1997, Ecology approved the PUREX Facility Preclosure Work Plan.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: RCRA Closure and Corrective Action Work Plan

Permitting Agency: Washington State Department of Ecology

Permit Number: WA7890008967

Permitted Unit: Single-Shell Tank System

Issuance Date:

Expiration Date:

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Part A, Form 3, dangerous waste permit application documentation for the Single-Shell Tank System originally was submitted to Ecology and the EPA in February 1988. Four revisions of the Part A, Form 3, dangerous waste permit application documentation have been submitted.

Tri-Party Agreement Milestone M-20-03 was satisfied with the submittal of the Single-Shell Tank System Closure Work Plan to Ecology and the EPA in September 1989. A revised closure work plan was provided to Ecology on June 13, 1995, in accordance with Tri-Party Agreement Milestone M-45-06. Ecology provided Notice of Deficiency comments on March 6, 1996. The Notice of Deficiency comments were resolved in April 1996. Revision 1 of the closure work plan was submitted to Ecology in May 1996.

As a result of groundwater contamination detected beneath four of the Single-Shell Tank waste management areas, a Tri-Party Agreement Change Request for M-45-98-03 was approved. The approval requires implementation of near-term interim measures (replacement of well caps, etc.) and preparation of a work plan in accordance with Chapter 7 of the Tri-Party Agreement, to address the need for additional characterization and potential corrective actions.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

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## **9.0 RESOURCE CONSERVATION AND RECOVERY ACT DELISTING PETITION**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Delisting Approval - 40 CFR 260.20 and 260.22

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit Number: N/A

Permitted Unit: 200 Area Effluent Treatment Facility

Issuance Date: 06/13/95

Expiration Date: N/A

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

The 200 Area Effluent Treatment Facility Delisting Petition originally was submitted to the EPA in October 1992, with supporting documentation submitted in August 1993. Submittal of this delisting petition and a State Waste Discharge permit application in August of 1993 satisfied Consent Order DE 91NM-177 requirements for discharge of liquid effluent from the 200 Area Effluent Treatment Facility to the soil column.

The delisting petition was prepared to exempt the treated effluent from the 200 Area Effluent Treatment Facility from Subtitle C of RCRA. The delisting conditions included verification testing and monitoring requirements. Delisting enables disposal of the treated effluent to a State Approved Land Disposal Site. The EPA gave notice of their approval of the delisting petition in the Federal Register dated June 13, 1995. This initial petition covered F001-F005 waste and F039 waste derived from only F001-F005 waste.

A modification to the delisting petition was submitted to Ecology (as lead regulatory agency) on 11/30/98. This modification is to increase the annual effluent volume limit from 19 million gallons per year to 56 million gallons per year and to include waste constituents associated with multi-source leachate generated from other than F001-F005 waste. Ecology/EPA has not issued approval.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

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## **10.0 SOLID WASTE HANDLING**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( )

Permit Type: Solid Waste Handling Permit - WAC 173-304

Permitting Agency: Washington State Department of Ecology

Permit Number: N/A

**Permitted Unit: Solid Waste Landfill**

Issuance Date: N/A

Expiration Date: N/A

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

The Solid Waste Handling Permit would have allowed disposal of nonhazardous, nonradioactive waste in the Solid Waste Landfill, located in the 600 Area, north of the Wye Barricade. The application was submitted to Ecology in November 1993. Ecology denied the application for a Solid Waste Handling Permit to operate the Solid Waste Landfill on March 14, 1995, because groundwater contamination had been detected in the underlying aquifer.

Ecology agreed that DOE-RL could continue interim operation of the landfill in the absence of a permit if a target shutdown date for the Solid Waste landfill was submitted and approved by Ecology. A target shutdown date of March 31, 1996 was submitted to Ecology and approved. The Solid Waste Landfill ceased operations on March 31, 1996. An interim closure plan, Hanford Site Solid Waste Landfill Interim Closure Plan, was prepared and submitted to Ecology on July 9, 1996. As of July 31, 1999, groundwater, soil gas, and leachate monitoring continues and results from the monitoring are reported quarterly. Closing of this unit will be coordinated with closing of the Nonradioactive Dangerous Waste Landfill (refer to page 6-12).

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

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## **11.0 CLEAN AIR ACT**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program, Radioactive Source Registration -  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit Number: FF-01

Permitted Unit: Hanford Site (Radioactive Air Emissions Program)

Issuance Date: 08/15/93

Expiration Date: 08/15/97, or when replaced by air operating permit

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This permit governs the operations of the emission sources in the 100, 200, 300, 400, and 600 Areas of the Hanford Site related to fuel reprocessing; radioactive waste handling; and disposal, research, development, and other nuclear operations having the potential to emit airborne radioactivity in excess or equal to 10 percent of the derived concentration guideline values. The major permit conditions include discharge points, efficiency values for control devices, effluent limitations daily and yearly, and continuous monitoring requirements.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Title V Operating Permit - 40 CFR 70

Permitting Agency: Washington State Department of Ecology  
Washington State Department of Health  
U.S. Environmental Protection Agency, Region 10

Permit Number: NWP-AOP-99-1 (Draft)

Permitted Unit: Hanford Site (Title V Operating Permit)

Issuance Date: TBD

Expiration Date: TBD

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

The permit will list regulated pollutants emitted, identify and describe emission points (except insignificant emission units), provide emission rates, and describe fuels and other inputs or factors relating to emissions and emission control equipment. Radioactive and nonradioactive sources will be included. The permit application was submitted to Ecology and to the WDOH on May 25, 1995. Amendments to the permit application maintain the application current. The permit is scheduled to be issued by Ecology the last quarter of calendar year 1999.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Environmental Molecular Sciences Laboratory

Issuance Date: 07/06/94

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed EMSL to be constructed and to operate in a location near the 300 Area. EMSL is a multi-user laboratory providing the necessary complement of capabilities designed for research and development activities to solve environmental restoration and waste management problems on the Hanford Site. On July 6, 1994, an approval letter was received from the EPA. Startup operations began on September 1, 1997, at which time 75 percent of the individual modules (60 laboratories) were in full operation.

EMSL currently is operational with no compliance issues during the period covered by this status report,

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 94-803

Permitted Unit: Environmental Molecular Sciences Laboratory Construction

Issuance Date: 08/02/94

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed EMSL to be constructed and to operate in a location near the 300 Area. EMSL is a multi-user laboratory providing the necessary complement of capabilities designed for research and development activities to solve environmental restoration and waste management problems on the Hanford Site. On August 2, 1994, an approval letter was received from the Department of Health. Startup of operations at the EMSL began on September 1, 1997, at which time 75 percent of the individual modules (60 laboratories) were in full operation.

EMSL currently is operational with no compliance issues during the period covered by this status report.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: NOC-94-08

Permitted Unit: Environmental Molecular Sciences Laboratory

Issuance Date: 09/12/94, modified 01/05/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the EMSL to be constructed and to operate in a location near the 300 Area. EMSL is a multi-user laboratory providing the necessary complement of capabilities designed for research and development activities to solve environmental restoration and waste management problems on the Hanford Site. The Notice of Construction was approved by Ecology on September 12, 1994, with emission limits for ammonia and volatile organic compounds, as well as source testing requirements. Startup operations began on September 1, 1997, at which time 75 percent of the individual modules (60 laboratories) were in full operation.

On January 5, 1999, Condition #1 of NOC 94-08 (dated 9/12/94) was modified whereby changes can be made to accommodate changing research and support requirements providing that the total building emissions meet the acceptable source impact levels (ASILs) and WAC 173-400-110 and new source review thresholds. Total building emissions will be the sum of all emissions sources in the EMSL Building, not otherwise exempt under WAC 173-400 or WAC 173-460.

EMSL currently is operational with no compliance issues during the period covered by this status report.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Environmental Molecular Sciences Laboratory Uranyl Nitrate Hexahydrate  
Project

Issuance Date: 12/16/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the addition of a new process to the EMSL Building. The new process involves sample injection and spectroscopic measurements. The process at EMSL involves injecting a 10 milliliter sample of 8 picocuries per milliliter of depleted uranium in the form of uranyl nitrate hexahydrate into an evacuated cryostat chamber, freezing the sample onto a cold copper plate, and making spectroscopic measurements. The exhaust air from the evacuated cryostat chamber is HEPA filtered and tied directly into the building exhaust Stack #4. On December 16, 1997, WDOH approved the new process.

EMSL currently is operational with no compliance issues during the period covered by this status report.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Environmental Molecular Sciences Laboratory Uranyl Nitrate Hexahydrate  
Project

Issuance Date: 03/11/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for the addition of a new process to the EMSL Building. The new process involves sample injection and spectroscopic measurements. The process at EMSL involves injecting a 10 milliliter sample of 8 picocuries per milliliter of depleted uranium in the form of uranyl nitrate hexahydrate into an evacuated cryostat chamber, freezing the sample onto a cold copper plate, and making spectroscopic measurements. The exhaust air from the evacuated cryostat chamber is HEPA filtered and tied directly into the building exhaust Stack #4. On December 16, 1997, WDOH approved the new process.

EMSL currently is operational with no compliance issues during the reporting period covered by this status report.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: DE 98NWP-003

Permitted Unit: 305-B Storage Facility Gas Cylinder Management Process

Issuance Date: 09/01/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed modifications to the 305-B Storage Facility. The modifications consisted of the addition of a gas cylinder management process to manage the release of the residual contents of gas cylinders that are no longer needed for research operations throughout the laboratory.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 95-811

Permitted Unit: 305-B Storage Facility Modification

Issuance Date: 08/25/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the construction of a fume hood in the 305-B Storage Facility for waste sampling and repackaging activities and approved the radionuclide air emissions control equipment. On August 25, 1995, an approval letter was received from WDOH. The fume hood in the 305-B Storage Facility is operational.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-1007

Permitted Unit: Modification of Annual Possession Quantity for 305-B Storage Facility

Issuance Date: 10/08/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the increase in possession quantity for the 305-B Storage Facility.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Modification of Annual Possession Quantity for 305-B Storage Facility

Issuance Date: 11/04/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for the increase in possession quantity for the 305-B Storage Facility.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: DE 98NWP-002

Permitted Unit: **Material Development Laboratory for Catalytic Electrochemical Oxidation and  
Total Building Emissions - 306-W Building**

Issuance Date: 06/02/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the installation and operation of a catalytic electrochemical oxidation (CEO) unit in the 306-W Building. The CEO unit has two compartments, an anode and a cathode, separated by a membrane separator. Liquid organic waste is oxidized in the anode compartment using a regenerative catalyst. Carbon dioxide and traces of organics are released from the anolyte process and are monitored online by a portable gas chromatography system. At the cathode compartment, the electrolysis of nitric acid and water is carried out, producing nitrogen oxide and hydrogen gas. A liquid scrubber system is installed at the cathode side to remove the nitrogen oxide generated as a primary contaminant. The nitrogen oxide recombines with water to form nitric acid that is recirculated within the catholytic compartment. The unit is exhausted through the 306-W Building exhaust. On June 2, 1998, an approval letter was received from Ecology.

The CEO unit is operational with no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Shortform Approval

Permitted Unit: X-Ray and Low-Level Waste Repackaging in the 306-W Building

Issuance Date: 08/04/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the addition of a new process to the 306-W Building. The new process is x-ray, examination, and inspection of low-level waste packages, drums, and burial boxes. The process involves inspection of existing waste currently staged at the 306-W Building and staging waste from 300 Area buildings operated by PNNL to the 306-W Building to consolidate waste management efforts. On August 4, 1997, WDOH approved the x-ray and low-level waste repackaging in the 306-W Building.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: 318 Building Modification and Stack Relocation

Issuance Date: 01/06/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the building exhaust to be moved from the existing location to a location above Room 126. Emissions from the new stack are not filtered by a high-efficiency particulate air (HEPA) filter. The new exhaust stack has an isokinetic sampling probe and sampling equipment installed as part of the project. On January 6, 1998, WDOH approved the modification. The new exhaust is operational.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 318 Building Modification and Stack Relocation

Issuance Date: 03/11/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for the building exhaust to be moved from the existing location to a location above Room 126. Emissions from the new stack are not filtered by a HEPA filter. The new exhaust stack has an isokinetic sampling probe and sampling equipment installed as part of the project. In a March 11, 1998 letter, the EPA granted approval of modification for the project as described. The new exhaust is operational.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 325 Building Tritium Target Qualification Program

Issuance Date: 03/03/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the sectioning of tritium target rods, tritium extraction and analysis, and ex-reactor tritium permeation tests. On March 3, 1997, an approval letter was received from the EPA. Because of two acute unplanned releases of tritium from this project, WDOH issued a Stop Work Order and Temporary License Suspension effective December 10, 1998. Corrective Actions were implemented and the Stop Work Order and Temporary License Suspension were lifted on February 10, 1999. The project is ongoing.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-307

Permitted Unit: 325 Building Tritium Target Qualification Program

Issuance Date: 03/28/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the sectioning of tritium target rods, tritium extraction and analysis, and ex-reactor tritium permeation tests for 10 tritium target rods shipped from the Idaho National Engineering Laboratory. On March 28, 1997, an approval letter was received from WDOH. Because of two acute unplanned releases of tritium from this project, WDOH issued a Stop Work Order and Temporary License Suspension effective December 10, 1998. Corrective Actions were implemented and the Stop Work Order and Temporary License Suspension were lifted on February 10, 1999. The project is ongoing.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 96-506

Permitted Unit: 325/331 Building Portable Radon Generator

Issuance Date: 05/15/96

Expiration Date NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

The Radon Research Facility was originally the facility that would accommodate a portable radon generator unit. The research facility was to be installed in the Life Sciences Laboratory in the 331 Building. The research involves the evaluation of worker and public health and safety issues related to radon in the workplace and the environment. Because of program changes and incomplete installation at the 331 Building, a request was made to WDOH to relocate the generator to the 325 Building. WDOH approved moving the radon generator unit to any facility onsite as long as conditions of the applicable Notice of Construction are followed. The radon generator currently is located in the 325 Building.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Applied Chemistry, 325 Building, Low-Level Waste Vitrification Research  
Program

Issuance Date: 05/07/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed research to be conducted on special nuclear materials disposition and low-level waste vitrification. The research includes slurry and powder feeds, melting, quenching, and annealing of plutonium containing glasses. In a May 7, 1996 letter, the EPA granted approval for the project as described. This research work is ongoing.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 96-604

Permitted Unit: Applied Chemistry, 325 Building Low-Level Waste Vitrification Research  
Program

Issuance Date: 06/07/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed research to be conducted on special nuclear materials disposition and low-level waste vitrification. The research includes slurry and powder feeds, melting, quenching, and annealing of plutonium containing glasses. Approval was received on June 7, 1996. This research work is ongoing.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: DE 98NWP-004

Permitted Unit: Hazardous Waste Treatment Unit in the 325 Building

Issuance Date: 09/01/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the construction and operation of the Hazardous Waste Treatment Unit (HWTU).

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Hazardous Waste Treatment Unit in the 325 Building

Issuance Date: 09/02/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the construction and operation of the Hazardous Waste Treatment Unit (HWTU).

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-909

Permitted Unit: Hazardous Waste Treatment Unit in the 325 Building

Issuance Date: 09/15/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the construction and operation of the Hazardous Waste Treatment Unit (HWTU).

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-807

Permitted Unit: **Modification to the Annual Possession Quantity of the 325 Building Special Nuclear Materials Disposition and Low-Level Waste Vitrification Research Programs (Pu-238)**

Issuance Date: 08/20/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed a modification to the annual possession quantity of the 325 Building Special Nuclear Materials Disposition and Low-Level Waste Vitrification Research Programs. This approval allowed a change in inventory for plutonium-238.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: **Modification to the Annual Possession Quantity of the 325 Building Special Nuclear Materials Disposition and Low-Level Waste Vitrification Research Programs (Pu-238)**

Issuance Date: 08/27/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed a modification to the annual possession quantity of the 325 Building Special Nuclear Materials Disposition and Low-Level Waste Vitrification Research Programs. This approval allowed a change in inventory for plutonium-238.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Radiochemical Processing Laboratory, 325 Building

Issuance Date: 01/19/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the relocation of 9,550 curies of strontium-90 from the 324 Building to the 325 Building. The strontium-90 will be stored in a hot cell within the 325 Building before future processing as generator material for the production of yttrium-90. The project has medical applications in the treatment of cancer and other diseases. The material will remain in the enclosed transportation cylinders during storage. A Notice of Construction will be required when the material is opened and processed. On January 19, 1998, WDOH approved the relocation.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Radiochemical Processing Laboratory, 325 Building

Issuance Date: 03/11/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for the relocation of 9,550 curies of strontium-90 from the 324 Building to the 325 Building. The strontium-90 will be stored in a hot cell within the 325 Building before future processing as generator material for the production of yttrium-90. The project has medical applications in the treatment of cancer and other diseases. The material will remain in the enclosed transportation cylinders during storage. A Notice of Construction will be required when the material is opened and processed. In a March 11, 1998 letter, the EPA granted approval of the project as described.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: NW P95-329/300A

Permitted Unit: Chemical Sciences Laboratory, 329 Building Modification and Ventilation  
Upgrades

Issuance Date: 09/18/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the renovation of the Chemical Sciences Laboratory (329 Building) in the 300 Area. The renovation included modernizing the laboratories and ventilation system to consolidate four emission points into a single exhaust stack. On September 18, 1996, an approval letter was received from Ecology, with emission limits for opacity and volatile organic compound compliance through a source test. The renovation of the Chemical Sciences Laboratory is complete and the 329 Building is operational.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: 97NM-147

Permitted Unit: Life Sciences Laboratory I (Building 331) Modifications

Issuance Date: 11/10/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the removal and relocation of existing fume hoods and installation of new fume hoods; updating cabinet casework, sinks, and laboratory space; and demolition and renovation activities. Work from other laboratories outside the 331 Building is being relocated to the 331 Building. On November 10, 1997, an approval letter was received from Ecology. The building renovations and modifications were completed.

The 331 Building is operational with no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Life Sciences Laboratory I (Building 331) Modifications

Issuance Date: 01/06/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for the removal and relocation of existing fume hoods; installation of new fume hoods; and updating of cabinet casework, sinks, and laboratory space. Work from other laboratories outside the 331 Building is being relocated to the 331 Building. In a January 6, 1998 letter, the EPA granted approval of construction or modification for the project as described. The building renovations and modifications were completed.

The 331 Building is operational with no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-108

Permitted Unit: Life Sciences Laboratory I (Building 331) Modifications

Issuance Date: 01/21/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the removal and relocation of existing fume hoods; installation of new fume hoods; and updating of cabinet casework, sinks, and laboratory space. Work from other laboratories outside the 331 Building is being relocated to the 331 Building. On January 21, 1998, an approval letter was received from WDOH. The building renovations and modifications were completed.

The 331 Building is operational with no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Registration of Existing Stacks at the 331-G Building

Issuance Date: 01/16/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the registration of the 331-G Building stacks (EP-331G-01-S and EP-331G-02-S). Radionuclide inventory has been added to the current building chemical inventory and is exhausted through the two stacks. Small quantities (microcuries) of tracer radionuclides are deposited in soil, taken up by vegetation, and fed to small animals. The animals temporarily are housed in the facility, and their excrements stored in closed containers within the facility. On January 16, 1998, WDOH approved a modification.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Registration of Existing Stacks at the 331-G Building

Issuance Date: 03/11/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for the registration of the 331-G Building stacks (EP-331G-01-S and EP-331G-02-S). Radionuclide inventory has been added to the current building chemical inventory and is exhausted through the two stacks. Small quantities (microcuries) of tracer radionuclides are deposited in soil, taken up by vegetation, and fed to small animals. The animals temporarily are housed in the facility, and their excrements stored in closed containers within the facility. In a March 11, 1998 letter, the EPA granted approval of construction for the project as described.

There were no compliance issues during this reporting period.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 96-802

Permitted Unit: 105-C Reactor Safe Storage

Issuance Date: 08/12/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the decontamination and demolition of unnecessary structures at the 105-C Reactor and the construction of the interim safe storage enclosure for the 105-C Reactor block. Approval was received August 12, 1996. On July 30, 1998, a Notice of Correction was issued. Work was completed in September 1998.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 105-C Reactor Safe Storage

Issuance Date: 09/03/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for the decontamination and demolition of unnecessary structures at the 105-C Reactor and the construction of the interim safe storage enclosure for the 105-C Reactor block. Approval was received September 3, 1996. On July 30, 1998, a Notice of Correction was issued. Work was completed in September 1998.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Shortform Approval

Permitted Unit: Radiological Counting Facility

Issuance Date: 09/10/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of the Notice of Construction allowed the Radiological Counting Facility (formerly part of the Environmental Analytical Laboratory) to perform timely radiological screening and analyses. Approval was received from WDOH on September 10, 1998. This Notice of Construction replaces the Notice of Construction previously approved by WDOH for the Environmental Analytical Laboratory. The Notice of Correction issued by WDOH on July 30, 1998 was addressed by DOE-RL on September 21, 1998.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter # OAQ-107

Permitted Unit: Radiological Counting Facility

Issuance Date: 10/19/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of the application allowed the Radiological Counting Facility (formerly part of the Environmental Analytical Laboratory) to perform timely radiological screening and analyses. Approval was received from EPA on October 19, 1998. This Notice of Construction replaces the Notice of Construction previously approved by EPA for the Environmental Analytical Laboratory. The Notice of Correction issued by WDOH on July 30, 1998 was addressed by DOE-RL on September 21, 1998.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Shortform Approval

Permitted Unit: Characterization of the 202-S Hexone Tanks

Issuance Date: 03/31/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows the systematic sampling and characterization of the 276-S-141/142 hexone tanks. Approval was received on March 31, 1999. A modification was made to the Notice of Construction, approved on June 14, 1999. During the sampling, higher than anticipated hexone gases were encountered, requiring the re-application of the nitrogen purge in place before sampling.

There were no compliance issues during this reporting period.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 91-803

Permitted Unit: Purgewater Modutanks

Issuance Date: 08/27/91

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for solar evaporation of Hanford Site purgewater, which is excess groundwater produced during groundwater monitoring and sampling activities. Approval was received on August 27, 1991 and continues in use. The Notice of Construction was modified on July 9, 1998 as noted in ERC Team Meeting Minutes 061388. The modified Notice of Construction, issued as AIR 99-101, was approved by WDOH on January 8, 1999.

There were no compliance issues during this reporting period.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Meeting minutes

Permitted Unit: **Purgewater Modutanks**

Issuance Date: 07/09/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for solar evaporation of Hanford Site purgewater, which is excess groundwater produced during groundwater monitoring and sampling activities. Approval of AIR 91-803 was received on August 27, 1991 and continues in use. The Notice of Construction was modified on July 9, 1998 as noted in ERC Team Meeting Minutes 061388. The modified Notice of Construction, issued as AIR 99-101, was approved by WDOH on January 8, 1999.

There were no compliance issues during this reporting period.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 99-101

Permitted Unit: Purgewater Modutanks

Issuance Date: 01/08/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for solar evaporation of Hanford Site purgewater, which is excess groundwater produced during groundwater monitoring and sampling activities. Approval on the original NOC (AIR 91-803) was received on August 27, 1991 and continues in use. The Notice of Construction was modified on July 9, 1998 as noted in ERC Team Meeting Minutes 06/13/88. The modified NOC, which was issued as AIR 99-101, was approved by WDOH on January 8, 1999.

There were no compliance issues during this reporting period.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Cold Vacuum Drying

Issuance Date: 01/10/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for construction and operation of the Cold Vacuum Drying Facility. Spent nuclear fuel will be conditioned in the Cold Vacuum Drying Facility before transfer to the Canister Storage Building. The facility is under construction as of July 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: 97NM-022

Permitted Unit: Cold Vacuum Drying Facility - Phase II

Issuance Date: 03/07/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for Phase II construction and operation of the Cold Vacuum Drying Facility. Spent nuclear fuel will be conditioned in the Cold Vacuum Drying Facility before transfer to the Canister Storage Building. The facility is under construction (Phase II) as of July 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-605

Permitted Unit: Cold Vacuum Drying Facility - Phase II

Issuance Date: 06/19/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for Phase II construction and operation of the Cold Vacuum Drying Facility. Spent nuclear fuel will be conditioned in the Cold Vacuum Drying Facility before transfer to the Canister Storage Building. The facility is under construction (Phase II) as of July 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: 97NM-551

Permitted Unit: 1724-K Building Maintenance Shop

Issuance Date: 01/29/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for construction and operation of the 1724-K Building Maintenance Shop. This shop is operating, but certain processes (e.g., paint booth) are incomplete and have not begun operation.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: 105-KE Basin Chiller and Heat Exchanger Removal Activity

Issuance Date: 09/10/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for removal of the basin water chiller and heat exchanger from the 105-KE Basin. Both pieces of equipment are inoperable and are awaiting removal.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 105-KE Basin Chiller Removal

Issuance Date: 10/22/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allowed for the removal of the basin water chiller and heat exchanger from the 105 KE Basin. Both pieces of equipment are inoperable and are awaiting removal.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-206

Permitted Unit: 105-KE Basin Fuel Removal

Issuance Date: 03/05/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for the construction of equipment and subsequent operations necessary to remove spent nuclear fuel from the 105-KE Basin.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 105-KE Basin Fuel Removal

Issuance Date: 04/22/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allowed for the construction of equipment and subsequent operations necessary to remove spent nuclear fuel from the 105-KE Basin.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: 105-KE Basin Hydrolasing

Issuance Date: 11/12/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for the internal decontamination of piping at the 105-KE Basin by the hydrolasing process. During the last report period, it was not necessary to employ this process.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 105-KE Basin Hydrolasing

Issuance Date: 01/07/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allowed for the internal decontamination of piping at the 105-KE Basin by the hydrolasing process. During the last report period, it was not necessary to employ this process.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: 105-KE Basin Sludge Sampling

Issuance Date: 06/13/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for the sampling of sludge in the 105-KE Basin.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: 105-K Basins Characterization Phase II

Issuance Date: 01/09/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for sampling of liquids, gases, sludge, and fuel elements from the 105-KE and 105-KW Basins.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Telecon

Permitted Unit: 105-KE and KW Basins Leak Test

Issuance Date: 02/22/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for periodic leak testing of the barrier doors installed in the 105-KE and 105-KW Basins. The test is performed by drawdown of the water for a short time in the discharge chute behind the doors.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: 105-KE and KW Basins Routine Fuel Activities

Issuance Date: 10/05/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for performance of routine activities necessary to operate and maintain the 105-KE and 105-KW Basins.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-706

Permitted Unit: 105-KW Basin Fuel Removal

Issuance Date: 07/28/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for the construction of equipment necessary to remove spent nuclear fuel from the 105-KW Basin.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 105-KW Basin Fuel Removal

Issuance Date: 12/23/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allowed for the construction of equipment and subsequent operations necessary to remove spent nuclear fuel from the 105-KW Basin.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-105

Permitted Unit: 105-KW Basin Fuel Removal

Issuance Date: 01/22/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for the construction of equipment and subsequent operations necessary to remove spent nuclear fuel from the 105-KE Basin.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-307

Permitted Unit: 105-KW Basin Filter Vessel Sparging Vent

Issuance Date: 03/12/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for the construction and operation of filter vessel vents associated with the basin water treatment system in the 105-KW Basin. Operation of this system will require periodic venting of compressed air from the filter vessels through a small stack. This system is currently under construction and has not begun operation.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 105-KW Basin Filter Vessel Sparging Vent

Issuance Date: 03/24/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allowed for the construction and operation of filter vessel vents associated with the basin water treatment system in the 105-KW Basin. Operation of this system will require periodic venting of compressed air from the filter vessels through a small stack. This system is currently under construction and has not begun operation.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 241-C-106 Tank Sluicing

Issuance Date: 09/10/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed construction and operation of the 241-C-106 tank waste retrieval system in accordance with descriptions contained in the Notice of Construction. The 241-C-106 tank is a high-heat watchlist single-shell tank. This high-heat waste tank requires the addition of water to cool the tank waste. Retrieval of the waste eliminates the need to add water to the tank. Two phases of permitting were pursued. Phase I approval, received from U.S. Environmental Protection Agency, Region 10 on February 23, 1994 did not involve radioactive air emissions. The remaining Phase II activities generate radioactive air emissions.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: 97NM-001

Permitted Unit: 241-C-106 Tank Sluicing, Phase II

Issuance Date: 10/24/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction replaced the volatile organic compound maximum emission limit of 0.69 milligram per cubic meter to a volatile organic compound maximum emission limit of 50 parts per million measured as total organic carbon.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit (X)

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-1002

Permitted Unit: 241-C-106 Tank Sluicing, Phase II

Issuance Date: 10/02/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed construction and operation of the 241-C-106 tank waste retrieval system in accordance with descriptions contained in the Notice of Construction. The 241-C-106 tank is a high-heat watchlist single-shell tank. This high-heat waste tank requires the addition of water to cool the tank waste. Retrieval of the waste eliminates the need to add water to the tank. Two phases of permitting were pursued. Phase I approval, received from WDOH on February 28, 1994 (AIR-94-214), did not involve radioactive air emissions. The remaining Phase II activities generate radioactive air emissions.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: NOC revision approval

Permitted Unit: 241-C-106 Tank Sluicing, Phase II

Issuance Date: 04/09/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed construction and operation of the 241-C-106 tank waste retrieval system. The 241-C-106 tank is a high-heat watchlist single-shell tank. This high-heat waste tank requires the addition of water to cool the tank waste. Retrieval of the waste eliminates the need to add water to the tank.

Due to the change in estimated volatile organic compound emissions, this Notice of Construction amended volatile organic compound emissions to 500 parts per million with volatile organic compound measurements to be taken during sluicing pump operations. Sluicing operations are only to be conducted for 21 days (504 hours) per calendar year. Actions will be taken before reaching 500 parts per million to limit any excursions above the 500 parts per million. Cumulative sluicing time can be tracked hourly.

There were no compliance issues or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-710

Permitted Unit: Canister Storage Building

Issuance Date: 07/30/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for the construction and operation of the Canister Storage Building that will store spent nuclear fuel in interim dry storage.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Canister Storage Building

Issuance Date: 08/26/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allowed for the construction and operation of the Canister Storage Building that will store spent nuclear fuel in interim dry storage.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Modification to Central Waste Complex Radioactive Air Emission NOC for  
Vented Containers

Issuance Date: 08/24/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction (NOC) allowed the continued storage of vented containers at the CWC. This NOC modifies the existing NOC for vented containers at CWC. Conditions that ambient air monitors be maintained for the duration of the project for diffuse and fugitive emissions. The vented container inventory must be tracked in the Solid Waste Information and Tracking System database.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Modification to Central Waste Complex Radioactive Air Emission NOC for  
Vented Containers

Issuance Date: 08/26/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the continued storage of vented containers at the CWC. This application modifies the existing application for vented containers at CWC. Conditions that ambient air monitors be maintained for duration of project for diffuse and fugitive emissions. The vented container inventory must be tracked in the Solid Waste Information and Tracking System database.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: NWP-96-1

Permitted Unit: Emergency Fire Pump Generators

Issuance Date: 04/30/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed construction and operation of two emergency diesel generators designed to provide emergency power for the 200 Areas fire protection system. Major permit conditions include limits on hours of operation and emission rates.

During the period covered by this Status Report, the 200 Areas diesel generators operated with no compliance issues.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Tank Farm Restorations and Safe Operations (Project W-314)

Issuance Date: 12/23/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This approval allowed excavation in contaminated areas to support replacement of existing transfer lines with compliant transfer lines. Minor excavations are performed to support the replacement of wall nozzles in valve and pump pits to accommodate the new transfer lines.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-302

Permitted Unit: Tank Farm Restorations and Safe Operations (Project W-314)

Issuance Date: 03/05/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed excavation in contaminated areas to support replacement of existing transfer lines with compliant transfer lines. Minor excavations are performed to support the replacement of wall nozzles in valve and pump pits to accommodate the new transfer lines.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit (X)

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 99-404

Permitted Unit: Tank Farm Restorations and Safe Operations (Project W-314), Rev 1

Issuance Date: 04/19/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows for the excavation and re-routing of piping into areas of lessor contamination to support replacement of existing transfer lines with compliant transfer lines. Minor excavations are performed to support the replacement of wall nozzles in valve and pump pits to accommodate the new transfer lines.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Grouting Radionuclide Inventory In HO-10H-18581 Tanker Rail Car

Issuance Date: 09/28/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the filling with grout the void space in a buried rail tank car.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Grouting Radionuclide Inventory In HO-10H-18581 Tanker Rail Car

Issuance Date: 10/15/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for the filling with grout the void space in a buried rail tank car.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: Grouting Radionuclide Inventory In HO-10H-18581 Tanker Rail Car

Issuance Date: 03/31/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction was a minor modification to a previously approved NOC that allowed for the filling with grout the void space in a buried rail tank car. The minor modification changed the method of containment from a glovebag to a greenhouse with an exhauster. This was needed because the glovebag hampered the ability of personnel to articulate tools, etc. No change in the potential to emit or increase in abated emissions.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Unloading Radiologically Contaminated Hanford Garbage Trucks at the  
200 West Low-Level Burial Grounds

Issuance Date: 10/13/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the disposal of sanitary waste containing radioactive material in a burial trench located in the 200 West Area Low-Level Burial Grounds. The sanitary waste is transported to the burial ground by conventional garbage trucks. As sanitary waste is placed in the trench, noncompliant items (e.g., aerosol cans, etc.) are removed. Radiological surveys are conducted throughout the disposal operation. Garbage left in, or put in the trench after completing the described activities, is covered in either the 200 West or 200 East areas of the Hanford Site.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Unloading Radiologically Contaminated Hanford Garbage Trucks at the  
200 West Low-Level Burial Grounds

Issuance Date: 10/13/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the disposal of sanitary waste containing radioactive material in a burial trench located in the 200 West Area Low-Level Burial Grounds. The sanitary waste is transported to the burial ground by conventional garbage truck. As sanitary waste is placed in the trench, noncompliant items (e.g., aerosol cans, etc.) are removed. Radiological surveys are conducted throughout the disposal operation. Waste that is placed in the trench after completing the described activities is covered.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-1009

Permitted Unit: Soil Characterization Using the Cone Penetrometer

Issuance Date: 10/29/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Modification to the existing, unregistered emission unit 241-AX-104 Tank (AX Tank Farm is a non-operational tank farm). This activity involves deployment of sensors and samplers by using the cone penetrometer to characterize soils around the AX-104 tank. There is minimal potential for sudden or other air emissions from this technology.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit (X)

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Short form approval

Permitted Unit: Addition of 200 Area Effluent Treatment Facility Load-In Station Filter Skid

Issuance Date: 03/31/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the installation and operation of the ETF Load-In Station Filter Skid filtration unit for filtering wastewater received from tanker trucks and closed containers. The skid contains three filters and associated piping assembled as a single unit in a frame.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Shortform Approval

Permitted Unit: By-Passing the 244-U Double Contained Receiver Tank During Saltwell  
Pumping

Issuance Date: 05/04/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed installation of approximately 6 feet of 3-inch diameter primary steel pipe and 6 feet of 6-inch diameter encasement piping connecting transfer lines SN-216 and SN-216/282 to serve as a by-pass around the 244-U DCRT. This enables waste in the tanks located in the 241-U Tank Farm to be saltwell pumped to the 241-SY-102 tank without passing through the 244-U DCRT.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: **By-Passing the 244-U Double Contained Receiver Tank During Saltwell Pumping**

Issuance Date: 05/07/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allows installation of approximately 6 feet of 3-inch diameter primary steel pipe and 6 feet of 6-inch diameter encasement piping connecting transfer lines SN-216 and SN216/282 to serve as a by-pass around the 244-U DCRT. This enables waste in the tanks located in the 241-U Tank Farm to be saltwell pumped to the 241-SY-102 tank without passing through the 244-U DCRT.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Shortform Approval

Permitted Unit: Decommissioning and Sampling of 41-09-39 Borehole

Issuance Date: 05/07/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows for sampling and decommissioning an existing borehole. These activities represent an insignificant new emission unit.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Decommissioning and Sampling of 41-09-39 Borehole

Issuance Date: 05/20/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allows for sampling and decommissioning an existing borehole. These activities represent an insignificant new emission unit.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 99-701

Permitted Unit: Vadose Zone Characterization

Issuance Date: 07/14/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allows for subsurface soil sampling within selected single-shell tank farms. Several methods of sampling and drilling techniques are described in the NOC, including air rotary drilling, sonic drilling, closed en probe, cable tool drilling, cone penetrometer, air rotary split spoon, and others. Individual methods are selected based on the likely levels of contaminants to be encountered. Up to 10 equivalent boreholes could be drilled during any consecutive 12-month period. The approval applies to the following tank farms; 241-A, 241-AX, 241-B, 241-BX, 241-BY, 241-C, 241-S, 241-SX, 241-T, 241-TX, 241-TY, and 241-U.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Vadose Zone Characterization

Issuance Date: 07/14/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allows for subsurface soil sampling within selected single-shell tank farms. Several methods of sampling and drilling techniques are described in the NOC, including air rotary drilling, sonic drilling, closed en probe, cable tool drilling, cone penetrometer, air rotary split spoon, and others. Individual methods are selected based on the likely levels of contaminants to be encountered. Up to 10 equivalent boreholes could be drilled during any consecutive 12-month period. The approval applies to the following tank farms; 241-A, 241-AX, 241-B, 241-BX, 241-BY, 241-C, 241-S, 241-SX, 241-T, 241-TX, 241-TY, and 241-U.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: 96NW-1-301

Permitted Unit: 200 Area Effluent Treatment Facility and Load-In Station, and Liquid Effluent Retention Facility

Issuance Date: 10/16/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction expanded the original approval to include influent streams from 200-UP-1 groundwater, N Basin water, and other batch waste streams from various locations on the Hanford Site.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: 200 Area Effluent Treatment Facility and Load-In Station, and Liquid Effluent Retention Facility

Issuance Date: 01/14/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed an increased potential-to-emit from the 200 Area ETF and Load-In Station, and LERF. This approval includes the LERF emission points 242AL42-001, 242AL43-001, and 242AL44-001. The combined abated offsite dose was calculated at .025 mrem per year. This NOC was revised by a short form approval on January 19, 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 200 Area Effluent Treatment Facility and Load-In Station, and Liquid Effluent Retention Facility

Issuance Date: 07/03/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed an increased potential-to-emit from the 200 Area ETF and Load-In Station, and the LERF. This approval includes the LERF emission points 242AL42-001, 242AL43-001, and 242AL44-001. The combined abated offsite dose was calculated at .025 mrem per year. This NOC was revised by a short form approval on January 19, 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: 200 Area Effluent Treatment Facility and Load-In Station, and Liquid Effluent Retention Facility

Issuance Date: 01/19/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows for clarifications of the operation of ETF and LERF. There is no increase in the total curie content or the potential to emit. This NOC reflects a revision to the NOC approved January 14, 1997 by WDOH.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-614

Permitted Unit: Upgrading the Exhauster Fans in the 241-AN Tank Farm

Issuance Date: 06/30/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction modified an existing emission unit (296-A-26). These modifications include replacing the existing ventilation fans, disconnecting the electric heaters, and installing new intrinsically safe (glycol) heaters. Fan replacement will increase flow capacity to a minimum of 1,000 cubic feet per minute. The project is on-hold.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Stack Monitoring System Upgrades (Project W-420)

Issuance Date: 01/07/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allows replacement of stacks and replacement of sampling and monitoring equipment with compliant equipment for the following stacks: 296-A-25, 296-B-28, 296-C-05, 296-P-16, 296-S-22, and 296-T-18.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 99-115

Permitted Unit: Stack Monitoring System Upgrades (Project W-420)

Issuance Date: 01/29/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows replacement of stacks and replacement of sampling and monitoring equipment with compliant equipment for the following stacks: 296-A-25, 296-B-28, 296-C-05, 296-P-16, 296-S-22, and 296-T-18.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 94-913

Permitted Unit: 244-CR Vault Double-Contained Receiver Tank

Issuance Date: 09/15/94

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction was granted subject to the 244-CR Vault double-contained receiver tank operating in accordance with descriptions contained in the Notice of Construction.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Air-95-1102

Permitted Unit: Ductwork and Process Piping Remediation in 234-5Z and 291-Z Buildings at  
the Plutonium Finishing Plant

Issuance Date: 11/07/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed for ductwork and process piping remediation in the 234-5Z and 291-Z Buildings. All remediation work uses a containment tent with HEPA filtration and/or glovebags as described.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: **Ductwork and Process Piping Remediation in 234-5Z and 291-Z Buildings at the Plutonium Finishing Plant**

Issuance Date: 11/22/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allowed for ductwork and process piping remediation in the 234-5Z and 291-Z Buildings. All remediation work uses a containment tent with HEPA filtration and/or glovebags as described.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 96-1205

Permitted Unit: Stabilization of Plutonium Metal Oxides in Muffle Furnaces at the Plutonium  
Finishing Plant

Issuance Date: 12/18/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the thermal stabilization of plutonium metals and oxides in the muffle furnaces at PFP.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: **Stabilization of Plutonium Metal Oxides in Muffle Furnaces at the Plutonium Finishing Plant**

Issuance Date: 02/18/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This approved application allowed for the thermal stabilization of plutonium metals and oxides in the muffle furnaces at PFP.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Stabilization of Plutonium Metal Oxides in Muffle Furnaces at the Plutonium  
Finishing Plant

Issuance Date: 09/01/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This approved Notice of Construction allowed for a 10 percent increase in potential emissions due to additional handling of plutonium metal in a newly installed inert atmosphere confinement unit.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Stabilization of Plutonium Metal Oxides in Muffle Furnaces at the Plutonium  
Finishing Plant

Issuance Date: 02/05/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This approved application allows for a 10 percent increase in potential emissions due to additional handling of plutonium metal in a newly installed inert atmosphere confinement unit.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Plutonium Finishing Plant Duct Work and Process Piping Remediation

Issuance Date: 07/09/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed an additional 35-foot segment of small diameter vacuum process piping to be remediated under the same conditions of a previously approved Notice of Construction. The additional 35 feet of piping has a source term of about 2 kilograms of plutonium. This additional work would not have a dose potential exceeding 0.1 millirem per year.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Plutonium Finishing Plant Duct Work and Process Piping Remediation

Issuance Date: 09/03/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed an additional 35-foot segment of small diameter vacuum process piping to be remediated under the same conditions of a previously approved Notice of Construction. The additional 35 feet of piping has a source term of about 2 kilograms of plutonium. This additional work would not have a dose potential exceeding 0.1 millirem per year.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Vertical Calciner at the Plutonium Finishing Plant

Issuance Date: 10/03/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the construction, installation, and operation of the vertical calciner at the 234-5Z Building. The plutonium and transuranic solutions will be stabilized to a plutonium oxide.

Once stabilization meets the DOE Order 3013 requirement for long-term storage, the materials will be placed in the PFP vaults. The vertical calciner also is discussed in the Plutonium Finishing Plant environmental impact statement.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 96-1105

Permitted Unit: Vertical Calciner at the Plutonium Finishing Plant

Issuance Date: 11/08/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the construction, installation, and operation of the vertical calciner at the 234-5Z Building. The plutonium and transuranic solutions are stabilized to a plutonium oxide. The oxide product could require handling in a thermal stabilization muffle furnace to meet U.S. DOE Order 3013.

Once this meets the U.S. DOE Order 3013 requirement for long-term storage, the materials will be placed in the PFP vaults. The vertical calciner also is discussed in the Plutonium Finishing Plant environmental impact statement.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Shortform Approval

Permitted Unit: Vertical Calciner at the Plutonium Finishing Plant

Issuance Date: 06/20/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for a modification of the existing process within the PFP. The modification allowed for the operation of a test calciner in Room 108 of the 234-Z Building.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit (X)

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-708

Permitted Unit: 241-AY and 241-AZ Ventilation Upgrades

Issuance Date: 07/10/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for modification of the existing tank farm ventilation system by installing new ventilation fans, stack, emissions control equipment, emissions monitoring equipment, and connecting piping. The modifications would increase the potential-to-emit, but are not expected to increase the actual emissions from the ventilation system. Installation of two, 300-horsepower mixer pumps in tank 241-AZ-101 will be used as a demonstration of technology to determine the effectiveness of mixer pumps in mobilizing settled solids for waste retrieval purposes. The pumps also will be used to support waste retrieval from this tank and a wash of the mobilized solids. This wash will be performed to ensure the solids meet the chemical parameters specified for waste disposal.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )                      Renewal ( )                      New Permit ( X )

Permit Type:            National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
                             40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No:              Letter

Permitted Unit:        241-AY and 241-AZ Ventilation Upgrades

Issuance Date:        07/28/98

Expiration Date:      NA

Need for Headquarters' Action                      Yes ( )                      No ( X )  
(for permit renewals or new permits)            If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed modification of the existing tank farm ventilation system by installing new ventilation fans, stack, emissions control equipment, emissions monitoring equipment, and connecting piping. The modifications could increase the potential-to-emit, but are not expected to increase the actual emissions from the ventilation system. Installation of two, 300-horsepower mixer pumps in tank 241-AZ-101 will be used as a demonstration of technology to determine the effectiveness of mixer pumps in mobilizing settled solids for waste retrieval purposes. The pumps also will be used to support waste retrieval from this tank and a wash of the mobilized solids. This wash will be performed to ensure the solids meet the chemical parameters specified for waste disposal.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
                  for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit (X)

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: 241-AY and 241-AZ Ventilation Upgrades

Issuance Date: 01/19/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this revised Notice of Construction reflects the following changes: recirculation module condensers will be operated with the cooling towers in the wet or dry mode; nominal stack exhaust temperature will be approximately 24 degrees Celsius; 702-AZ Building ventilation system (stack 296-A-43) has two parallel flow paths. Each flow path has one pre-filter, one HEPA filter, and one fan. Only one flow path normally operates at a time. Either fan can be used with either filter train.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: NOC 94-07

Permitted Unit: 241-AZ-101 Tank Waste Retrieval and 241-AY/241-AZ Tank Farms  
Ventilation Upgrades, Project W-151 and Project W-030

Issuance Date: 08/26/94

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the modification of the existing ventilation system and the installation of mixer pumps in AZ-101. This Notice of Construction was revised on 12/22/97 to modify the volatile organic compound emission limit to 50 parts per million by volume, measured as carbon, to use Method 25A for volatile organic compound emission testing. The revision also allowed measurement of ammonia using draeger tubes.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: NOC 94-07-01

Permitted Unit: 241-AZ-101 Tank Waste Retrieval and 241-AY/241-AZ Tank Farms  
Ventilation Upgrades, Project W-151 and Project W-030

Issuance Date: 12/22/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction modified NOC condition of original approvals, specifically to modify volatile organic compound emission limits and request approval of alternative test method. Relief from Cond. 1 in NOC 94-07.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Installation of a Small Mixer Pump to Support Routine pH Adjustment in the  
107-AN Tank

Issuance Date: 06/08/94

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the installation and use of a small mixer pump to support routine pH adjustment. Use of the pump is not considered a routine operation.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Installation of a small mixer pump in the 241-AN-107 Tank

Issuance Date: 06/29/94

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for the installation and use of a small mixer pump to support routine pH adjustment. Use of the pump is not considered a routine operation.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: B Plant Modification of the Ventilation System

Issuance Date: 06/19/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application included installing exhaust ductwork, installing air cleanup training equipment and fans, installing a new exhaust stack, isolation and ventilation of existing filter banks, and isolation of existing stack and exhaust fans. The construction and installation were completed by August 1998.

There were no compliance issues or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-805

Permitted Unit: B Plant Modification of the Ventilation System

Issuance Date: 08/20/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction included construction, startup, and operations of a new exhaust system (296-B-1) and a passive vent system (296-B-2), and shutdown of 291-B-1 exhaust system. The construction and installation were completed by August 1998.

There were no compliance issues or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: B Plant Ventilation Upgrades

Issuance Date: 10/27/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for removal of continuous air monitoring from the stack, and location change of control equipment canyon wall penetration change. Potential to emit calculations associated with changes are noted. The construction and installation were completed by August 1998.

There were no compliance issues or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-1012

Permitted Unit: B Plant Ventilation Upgrades

Issuance Date: 10/28/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for removal of continuous air monitoring from the stack, and location change of control equipment and canyon wall penetration change. Potential to emit calculations associated with changes are noted. The construction and installation were completed by August 1998.

There were no compliance issues or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Waste Encapsulation and Storage Facility K-3 Duct Characterization

Issuance Date: 11/12/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

The Notice of Construction approval allowed for a change in a previous approval to perform K-3 duct characterization work. The new activity involved taking smear samples inside the K-3 duct using a remote-controlled probe assembly. When entering the K-3 duct, photographs will be taken and radiation levels will be obtained.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Waste Encapsulation and Storage Facility K-3 Duct Characterization

Issuance Date: 12/17/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction modified the approval obtained on 11/12/96 for efforts to characterize the radiological inventory in the K-3 duct. The modification allows the use of hot cell manipulators rather than entering the K-3 duct using the remote-controlled probe assembly. The number of smear samples taken and the contamination that would be disturbed was decreased.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: **Waste Encapsulation and Storage Facility Liquid Low-Level Radioactive  
Stream Piping Modification and Contingency Operations**

Issuance Date: 02/26/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed some piping modifications in contaminated areas to support completion of the new low-level liquid waste system. Approval also provided for contingent operation of a reserve storage tank and ion exchange column, if necessary, to reduce contamination to an acceptable level.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Waste Encapsulation and Storage Facility K-3 Duct Characterization

Issuance Date: 03/06/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction modified the approval obtained on 12/20/96 for efforts to characterize the radiological inventory in the K-3 duct. The modification allowed the use of hot cell manipulators rather than entering the K-3 duct using the remote-controlled probe assembly. The number of smear samples taken and the contamination that would be disturbed was decreased.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Waste Encapsulation and Storage Facility Liquid Low-Level Radioactive  
Stream Piping Modification and Contingency Operations

Issuance Date: 03/30/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This approval allowed some piping modifications in contaminated areas to support completion of the new low-level liquid waste system. The approval also provided for contingent operation of a reserve storage tank and ion exchange column, if necessary, to reduce contamination to an acceptable level.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: Waste Encapsulation and Storage Facility Liquid Low-Level Radioactive  
Stream Piping Modification and Contingency Operations

Issuance Date: 01/19/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows some piping modifications in contaminated areas to support completion of the new low-level liquid waste system. Approval also provides for contingent operation of a reserve storage tank and ion exchange column, if necessary, to reduce contamination to an acceptable level. This NOC is a revision to the 02/26/98 WDOH approval.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: Waste Encapsulation and Storage Facility K-3 Duct Characterization

Issuance Date: 01/20/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction modifies the approval obtained on 12/17/97 for efforts to characterize the radiological inventory in the K-3 duct. The modification allowed the use of remote-controlled hot cell manipulators.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 93-707

Permitted Unit: Rotary Mode Core Sampling Systems #2

Issuance Date: 07/08/93

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed an exhauster to be installed on the passively ventilated double-shell and single-shell tanks containing hard saltcake. This installation allows rotary mode core sampling of the tank contents using approved radionuclide air emissions control equipment in accordance with descriptions contained in the Notice of Construction. Rotary mode core sampling in these tanks requires nitrogen to be injected into the tank. Therefore, the exhauster is required to prevent tank pressurization and to control emissions. The rotary mode core sampling activity is a Tri-Party Agreement Milestone (M-10-13).

A Discrepancy Review Form was written for this NOC with the following explanation. "The 1993 NOC is currently out-dated. New equipment and process descriptions were included in DOE/RL-94-118, Rev. 1. If truck #2 is to be used, it will be upgraded to meet these requirements." This NOC remains in effect to support all rotary mode core sampling.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Rotary Mode Core Sampling Systems #2

Issuance Date: 08/09/93

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed an exhauster to be installed on the passively ventilated double-shell and single-shell tanks containing hard saltcake. This installation allows rotary mode core sampling of the tank contents using approved radionuclide air emissions control equipment in accordance with descriptions contained in the application. Rotary mode core sampling in these tanks requires nitrogen to be injected into the tank. Therefore, the exhauster is required to prevent tank pressurization and to control emissions. The rotary mode core sampling activity is a Tri-Party Agreement Milestone (M-10-13). Use of this system to support tank characterization is under review.

A Discrepancy Review Form was written for this NOC with the following explanation. "The 1993 NOC is currently out-dated. New equipment and process descriptions were included in DOE/RL-94-118, Rev. 1. If truck #2 is to be used, it will be upgraded to meet these requirements." This NOC remains in effect to support all rotary mode core sampling.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-1007

Permitted Unit: Use of a Portable Exhauster at 244-AR Vault

Issuance Date: 10/09/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed use of a portable exhauster in the 244-AR Vault during air jetting of accumulated liquids from the cell sumps into the tanks and to make transfers among the tanks within the vault using radionuclide air emissions control equipment in accordance with descriptions contained in the Notice of Construction. The vault has been inactive since 1978 with the ventilation system inactive since 1993. Rain water and/or snow melt has accumulated in the sumps following cessation of operations. Active ventilation is required for air jetting operations; therefore, a portable exhauster will be used while removing the water from the sumps.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Use of a Portable Exhauster at 244-AR Vault

Issuance Date: 10/24/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed use of a portable exhauster in the 244-AR Vault during air jetting of accumulated liquids from the cell sumps into the tanks and to make transfers among the tanks within the vault using radionuclide air emissions control equipment in accordance with descriptions contained in this application. The vault has been inactive since 1978 with the ventilation system inactive since 1993. Rain water and/or snow melt has accumulated in the sumps since cessation of operations. Active ventilation is required for air jetting operations; therefore, a portable exhauster will be used while removing the water from the sumps.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: Use of a Portable Exhauster at 244-AR Vault

Issuance Date: 02/17/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this revised Notice of Construction allows use of updated estimates of the tank radiological inventory of the 244-AR Vault based on on-going tank characterization activities. A portable exhauster will be used in the 244-AR Vault during air jetting of accumulated liquids from the cell sumps into the tanks and to make transfers among the tanks within the vault using radionuclide air emissions control equipment

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period..

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: DE98NWP-005

Permitted Unit: Rotary Mode Core Sampling Systems 3 and 4

Issuance Date: 09/03/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

The rotary mode core sampling system was designed to sample tanks containing hardened waste. A prominent feature of this sampling system is the use of nitrogen gas to cool and purge the drill bit assembly. The purge also allows a more complete sample recovery by clearing cuttings that might otherwise obstruct the sampler drill bit, and prevents cross-contamination of different waste layers in the tank. The preferred mode of sampling is push-mode, which does not involve rotation of the drill string or significant purge gas flow. When the waste is too hard to push through, the core sample truck is placed in rotary mode to allow the bit to drill through the waste. It is during the rotary mode operation that an exhaustor system is necessary.

Of the approximately 50 tanks scheduled for rotary mode core sampling, 40 tanks are not actively ventilated and operate at atmospheric pressure with passive HEPA filters. A portable HEPA filtered exhaustor will be employed during sampling in tanks that are not actively ventilated to prevent potentially unsafe tank pressurization and to control potentially radioactive aerosols and dust generated by rotary mode core sampling. The portable exhaustor also will be moved between tank farms as needed with the rotary mode core sampling system. Each exhaustor could emit toxic air pollutants subject to WAC 173-460.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Rotary Mode Core Sampling (RMCS) Systems 3 and 4

Issuance Date: 08/04/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed an exhauster to be installed on the passively ventilated double-shell and single-shell tanks containing hard saltcake. This installation allows rotary mode core sampling of the tank contents using approved radionuclide air emissions control equipment in accordance with descriptions contained in the application. Rotary mode core sampling in these tanks requires nitrogen to be injected into the tank. Therefore, the exhauster is required to prevent tank pressurization and to control emissions. The rotary mode core sampling activity is a Tri-Party Agreement Milestone (M-10-13).

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-901

Permitted Unit: Rotary Mode Core Sampling Systems 3 and 4

Issuance Date: 09/03/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed an exhauster to be installed on the passively ventilated double-shell and single-shell tanks containing hard saltcake. This installation allows rotary mode core sampling of the tank contents using approved radionuclide air emissions control equipment in accordance with descriptions contained in the Notice of Construction. Rotary mode core sampling in these tanks requires nitrogen to be injected into the tank. Therefore, the exhauster is required to prevent tank pressurization and to control emissions. The rotary mode core sampling activity is a Tri-Party Agreement Milestone (M-10-13).

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit (X)

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-301

Permitted Unit: Rotary Mode Core Sampling Systems 3 and 4

Issuance Date: 03/06/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed an exhauster to be installed on the passively ventilated double-shell and single-shell tanks containing hard saltcake. Supplemental information was submitted for the rotary mode core sampling systems 3 and 4. This installation allows rotary mode core sampling of the tank contents using approved radionuclide air emissions control equipment in accordance with descriptions contained in the Notice of Construction. Rotary mode core sampling in these tanks requires nitrogen to be injected into the tank. Therefore, the exhauster is required to prevent tank pressurization and to control emissions. The rotary mode core sampling activity is a Tri-Party Agreement Milestone (M-10-13).

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: 241-SX-104 Tank Saltwell Pumping, Phase I

Issuance Date: 03/12/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the saltwell pumping of drainable liquid waste in 241-SX-104 tank.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 241-SX-104 Tank Saltwell Pumping

Issuance Date: 03/19/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the saltwell pumping of drainable liquid waste in the 241-SX-104 tank.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-1101

Permitted Unit: Rotary Mode Core Sampling Systems at 241-SX Tank Farm

Issuance Date: 11/13/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the use of the rotary mode core sampling equipment in the 241-SX Tank Farm using the existing exhaust system.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Rotary Mode Core Sampling Systems at 241-SX Tank Farm

Issuance Date: 01/14/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the use of the rotary mode core sampling equipment in the 241-SX Tank Farm using the existing exhaust system.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc..

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Saltwell Pumping of 241-SX-106 Tank

Issuance Date: 07/02/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the saltwell pumping of drainable liquid waste in 241-SX-106 tank.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Saltwell Pumping of 241-SX-106 Tank

Issuance Date: 07/21/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the saltwell pumping of drainable liquid waste in the 241-SX-106 tank.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Shortform Approval

Permitted Unit: 241-SY-101 Crust Growth Near Term Mitigation

Issuance Date: 04/23/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allows deployment of a tool similar to a void fraction instrument into the tank waste to perforate the crust creating vent paths through the crust and dislodging trapped gas bubbles from the crust matrix. The crust recently has solidified across the surface of the waste and is rising due to the buoyancy of the trapped gas bubbles. This perforation allows the slowing of the crust growth, which will provide more time to prepare for the transfer of waste from the tank. As the waste is transferred, the level of the gaseous crust layer will get closer to the intake level of the mixer pump. Removing the trapped gasses allows more waste to be transferred without the mixer pump cavitating from the intake of gas bubbles.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 241-SY-101 Crust Growth Near Term Mitigation

Issuance Date: 04/29/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allows deployment of a tool similar to a void fraction instrument into the tank waste to perforate the crust creating vent paths through the crust and dislodging trapped gas bubbles from the crust matrix. The crust recently has solidified across the surface of the waste and is rising due to the buoyancy of the trapped gas bubbles. This perforation allows the slowing of the crust growth, which will provide more time to prepare for the transfer of waste from the tank. As the waste is transferred, the level of the gaseous crust layer will get closer to the intake level of the mixer pump. Removing the trapped gasses allows more waste to be transferred without the mixer pump cavitating from the intake of gas bubbles.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 241-SY-101 Tank Mixer Pump

Issuance Date: 09/17/92

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the installation of mixing pumps to mitigate the periodic venting of gases from the tank.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 241-SY-101 Tank Mixer Pump Replacement

Issuance Date: 02/14/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed replacement of the present 241-SY-101 mixer pump, if the current pump fails, in accordance with descriptions contained in the application. The mixer pump is designed to mitigate flammable gas buildup in the 241-SY-101 tank.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 95-203

Permitted Unit: 241-SY-101 Tank Mixer Pump Replacement

Issuance Date: 02/21/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed replacement of the present 241-SY-101 mixer pump, if the current pump fails, in accordance with descriptions contained in the Notice of Construction. The mixer pump is designed to mitigate flammable gas buildup in the 241-SY-101 tank.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: T Plant Complex Secondary Containment and Leak Detection Upgrades

Issuance Date: 06/12/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed secondary containment and leak detection upgrades to be initiated at T Plant Complex. The approval also allowed an increase in waste and equipment handling activities in the upgraded 2706-T/2706-TA/2706-TB facilities. The increase waste and equipment handling activities are not expected to increase potential emissions by more than a factor of five.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: T Plant Complex Secondary Containment and Leak Detection Upgrades

Issuance Date: 09/03/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed secondary containment and leak detection upgrades to be initiated at T Plant Complex. The approval also allowed an increase in waste and equipment handling activities in the upgraded 2706-T/2706-TA/2706-TB facilities. The increase waste and equipment handling activities are not expected to increase potential emissions by more than a factor of five.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: PFP Agitator/Sample Probe Repair (D-5 and D-8 Tanks) at the 241-Z Building

Issuance Date: 02/23/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for agitator/sample probe repair in D-5 and D-8 tanks at the 241-Z Building.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: PFP Agitator/Sample Probe Repair (D-5 and D-8 Tanks) at the 241-Z Building

Issuance Date: 04/01/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for agitator/sample probe repair in D-5 and D-8 tanks at the 241-Z Building.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 92-710

Permitted Unit: Plutonium Finishing Plant Low-Level Waste Treatment Facility

Issuance Date: 07/30/92

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed construction of the Plutonium Finishing Plant Low-Level Waste Treatment Facility using approved radionuclide air emissions control equipment. This facility treats low-level waste water from the Plutonium Finishing Plant. No revisions of the Radioactive Air Emissions Program Notice of Construction have been submitted.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Waste Receiving and Processing

Issuance Date: 05/10/93

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed construction of Waste Receiving and Processing using approved radionuclide air emissions control equipment (Tri-Party Agreement Milestones M-18-00 and M-18-01). Waste Receiving and Processing is permitted to examine, assay, characterize, treat, and repackage radioactive and mixed waste.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 93-907

Permitted Unit: Waste Receiving and Processing

Issuance Date: 09/07/93

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed construction of Waste Receiving and Processing using approved radionuclide air emissions control equipment (Tri-Party Agreement Milestones M-18-00 and M-18-01). Waste Receiving and Processing is permitted to examine, assay, characterize, treat, and repackage radioactive and mixed waste.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: NOC 93-05

Permitted Unit: Waste Receiving and Processing

Issuance Date: 12/13/93

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed construction of Waste Receiving and Processing using approved radionuclide air emissions control equipment (Tri-Party Agreement Milestones M-18-00 and M-18-01). Waste Receiving and Processing is permitted to examine, assay, characterize, treat, and repack radioactive and mixed waste.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: Waste Receiving and Processing

Issuance Date: 01/20/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This revised Notice of Construction approval allows for changes in operational characteristics of WRAP.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: Waste Receiving and Processing

Issuance Date: 05/11/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This revised Notice of Construction approval allows for changes in operational characteristics of WRAP.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR-Feb11

Permitted Unit: 222-S Laboratory Hot Cell Expansion

Issuance Date: 02/28/92

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for pre-construction approval for an environmental hot cell addition at the 222-S Analytical Laboratory.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: Letter

Permitted Unit: 222-S Laboratory Hot Cell Expansion

Issuance Date: 07/13/92

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed an environmental hot cell addition at the 222-S Analytical Laboratory that provides seven additional hot cells to support increased demand for analytical services.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR-91-Nov1

Permitted Unit: 219-S to 204-AR Truck Transfers

Issuance Date: 11/12/91

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed construction for truck transfers of waste from the 219-S Waste Handling Facility to the 204-AR Waste Unloading Station in accordance with descriptions contained in the application. Routine transfers of waste from the 219-S Waste Handling Facility in the 222-S Laboratory Complex, located in the 200 West Area, to the 204-AR Waste Unloading Station, located in the 200 East Area, are required to remove waste from the 222-S Laboratory Complex to the Double-Shell Tank System.

The approval requires that log sheets documenting radiological contamination, gallons transferred, and estimated emissions be kept and submitted annually.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: 219-S to 204-AR Truck Transfers

Issuance Date: 01/19/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for truck transfers of waste from the 219-S Waste Handling Facility to the 204-AR Waste Unloading Station in accordance with descriptions contained in the application. Routine transfers of waste from the 219-S Waste Handling Facility in the 222-S Laboratory Complex, located in the 200 West Area, to the 204-AR Waste Unloading Station, located in the 200 East Area, are required to remove waste from the 222-S Laboratory Complex to the Double-Shell Tank System.

Approval of the revision allows the submittal of log sheets, excluding emission estimates, be continued.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: 97NM-138

Permitted Unit: 200/300 Area Steam Replacement

Issuance Date: 06/06/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the installation of about 41 new boilers in the 200 and 300 Areas, ranging in size from 10 brake horsepower to 700 brake horsepower, to replace current steam generating facilities.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Short Form NOC

Permitted Unit: Guzzler Excavation and Backfilling Activities in Support of the 200 East Area  
A Farm Complex

Issuance Date: 12/23/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed excavation of soil and gravel at the A Farm Complex. An approval condition is to survey the soil before excavation. This Notice of Construction has not been used.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: **Guzzler Excavation and Backfilling Activities in Support of the 200 East Area  
A Farm Complex**

Issuance Date: 03/11/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for excavation of soil and gravel at the A Farm Complex. An approval condition is to survey the soil before excavation. This application has not been used.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Operation of a Portable Exhauster in Conjunction with the Light Duty Utility  
Arm

Issuance Date: 03/12/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the use of the light duty utility arm in conjunction with an exhauster on passively ventilated (single-shell) tanks as a contingency measure. The light duty utility arm normally is operated without an exhauster. Use of the exhauster adds flexibility for the possibility of fog in a tank or to satisfy a safety requirement for actively ventilating a tank.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Operation of a Portable Exhauster in Conjunction with the Light Duty Utility  
Arm

Issuance Date: 07/02/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the use of the light duty utility arm in conjunction with an exhauster on passively ventilated (single-shell) tanks as a contingency measure. The light duty utility arm normally is operated without an exhauster. Use of the exhauster adds flexibility for the possibility of fog in a tank or to satisfy a safety requirement for actively ventilating a tank.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-503

Permitted Unit: 200 Area Interim Storage Area

Issuance Date: 05/20/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allows for construction of an aboveground storage area for spent nuclear fuel casks. Certain fuel types will be stored within storage casks at the Interim Storage Area.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 200 Area Interim Storage Area

Issuance Date: 06/24/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allows the construction of an aboveground storage area for spent nuclear fuel casks. Certain fuel types will be stored within storage casks at the Interim Storage Area.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: High-Efficiency Particulate Air Filtered Vacuum Units

Issuance Date: 01/08/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed the use of HEPA filtered vacuum units on the Hanford Site.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-312

Permitted Unit: High-Efficiency Particulate Air Filtered Vacuum Units

Issuance Date: 03/25/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allowed the use of HEPA filtered vacuum units on the Hanford Site.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

**Permitted Unit: Modular Containment for Sampling Activities at the Central Waste Complex**

Issuance Date: 08/18/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows the use of a modular unit at CWC to provide containment while waste containers are sampled for head space gases.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Modular Containment for Sampling Activities at the Central Waste Complex

Issuance Date: 12/02/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for use of a modular unit at CWC to provide containment while waste containers are sampled for head space gases.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Portable Exhauster Use On Single-Shell Tanks During Saltwell Pumping

Issuance Date: 10/15/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allows modification to existing emission units for the following single-shell tanks: 241-AX-101, 241-BY-105, 241-BY-106, 241-S-101, 241-S-102, 241-S-103, 241-S-106, 241-S-107, 241-S-109, 241-S-111, 241-S-112, 241-U-103, 241-U-105, 241-U-106, 241-U-107, 241-U-108, 241-U-109, and 241-U-111. All of these tanks are passively ventilated. The proposed modification is to install a portable exhauster on SSTs during saltwell pumping. The exhausters will be used when flammable gas levels exceed 25 percent of the lower flammability limit.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: DE98NWP-006

Permitted Unit: Portable Exhauster Use On Single-Shell Tanks During Saltwell Pumping

Issuance Date: 10/26/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows the use of portable exhausters on single-shell tanks during salt well pumping activities of the following tanks: 241-AX-101, 241-BY-105, 241-BY-106, 241-S-101, 241-S-102, 241-S-103, 241-S-106, 241-S-107, 241-S-109, 241-S-111, 241-S-112, 241-U-102, 241-U-103, 241-U-105, 241-U-106, 241-U-107, 241-U-108, 241-U-109, and 241-U-111. Activities include saltwell pumping (i.e., the actual transferring of waste from one tank to another) and the use of a water lance to facilitate saltwell screen and saltwell jet pump installation into the waste. This activity is performed under nominal (existing passive breathing rates) tank operating conditions.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-1207

Permitted Unit: Portable Exhauster Use On Single-Shell Tanks During Saltwell Pumping

Issuance Date: 12/16/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows modification to existing emission units for the following single-shell tanks: 241-AX-101, 241-BY-105, 241-BY-106, 241-S-101, 241-S-102, 241-S-103, 241-S-106, 241-S-107, 241-S-109, 241-S-111, 241-S-112, 241-U-103, 241-U-105, 241-U-106, 241-U-107, 241-U-108, 241-U-109, and 241-U-111. All of these tanks are passively ventilated. The proposed modification is to install a portable exhauster on single-shell tanks during saltwell pumping. The exhausters will be used when flammable gas levels exceed 25 percent of the lower flammability limit.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: **Portable Exhauster Use On Single-Shell Tanks During Saltwell Pumping,  
addition of tanks 241-T-104 and 241-T-110**

Issuance Date: 06/17/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows modification to existing emission units for the following single-shell tanks: 241-AX-101, 241-BY-105, 241-BY-106, 241-S-101, 241-S-102, 241-S-103, 241-S-106, 241-S-107, 241-S-109, 241-S-111, 241-S-112, 241-U-103, 241-U-105, 241-U-106, 241-U-107, 241-U-108, 241-U-109, and 241-U-111. All of these tanks are passively ventilated. The proposed modification is to install a portable exhauster on single-shell tanks during saltwell pumping. The exhausters will be used when flammable gas levels exceed 25 percent of the lower flammability limit.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: NOC revision approval

Permitted Unit: **Portable Exhauster Use On Single-Shell Tanks During Saltwell Pumping,  
addition of tanks 241-T-104 and 241-T-110**

Issuance Date: 07/07/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows the use of portable exhausters on single-shell tanks during saltwell pumping activities of the following tanks: 241-AX-101, 241-BY-105, 241-BY-106, 241-S-101, 241-S-102, 241-S-103, 241-S-106, 241-S-107, 241-S-109, 241-S-111, 241-S-112, 241-U-102, 241-U-103, 241-U-105, 241-U-106, 241-U-107, 241-U-108, 241-U-109, and 241-U-111. Activities include saltwell pumping (i.e., the actual transferring of waste from one tank to another) and the use of a water lance to facilitate saltwell screen and saltwell jet pump installation into the waste. This activity is performed under nominal (existing passive breathing rates) tank operating conditions.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: Portable Exhauster Use On Single-Shell Tanks During Saltwell Pumping,  
addition of tanks 241-A-101 and 241-U-102

Issuance Date: 07/31/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows modification to existing emission units for the following single-shell tanks: 241-AX-101, 241-BY-105, 241-BY-106, 241-S-101, 241-S-102, 241-S-103, 241-S-106, 241-S-107, 241-S-109, 241-S-111, 241-S-112, 241-U-103, 241-U-105, 241-U-106, 241-U-107, 241-U-108, 241-U-109, and 241-U-111. All of these tanks are passively ventilated. The proposed modification is to install a portable exhauster on single-shell tanks during saltwell pumping. The exhausters will be used when flammable gas levels exceed 25 percent of the lower flammability limit.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit (X)

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 99-204

Permitted Unit: Tank Farm Waste Transfer Pit 241-ER-152 and 244-A Lift Station

Issuance Date: 02/12/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows the following activities to be performed at the 241-ER-152 Transfer Pit and the 244-A Lift Station: remove or install cover blocks; perform inspections; install, disconnect, change, and cut up jumpers/blanks or other pit equipment; repair/replace valves, jumpers, pumps, filters, leak detectors or other instrumentation/equipment; perform decontamination activities; apply fixative with cover blocks on or off; clear drains; and check flow of drains. These activities are performed in accordance with specific work controls and are considered insignificant modifications to an existing, registered emission facility (244-A Lift Station), and an existing unregistered emission unit (241-ER-152 Diversion Box).

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Tank Farm Waste Transfer Pit 241-ER-152 and 244-A Lift Station

Issuance Date: 02/17/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the following activities to be performed at the 241-ER-152 Transfer Pit and the 244-A Lift Station: remove or install cover blocks; perform inspections; install, disconnect, change and cut up jumpers/blanks or other pit equipment; repair/replace valves, jumpers, pumps, filters, leak detectors or other instrumentation/equipment; perform decontamination activities; apply fixative with cover blocks on or off; clear drains; and check flow of drains. These activities are performed in accordance with specific work controls and are considered insignificant modifications to an existing, registered emission facility (244-A Lift Station), and an existing unregistered emission unit (241-ER-152 Diversion Box).

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 219-S Waste Handling Facility Secondary Containment Upgrade  
(Project W-178)

Issuance Date: 07/26/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )

No ( X )

If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This approval of this application allowed the removal of old piping at the 219-S Waste Handling Facility and installation of new stainless steel catch basin liners and piping. Also a new tank TK-104 was installed.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc..

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: 219-S Waste Handling Facility Secondary Containment Upgrade  
(Project W-178)

Issuance Date: 01/20/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This Notice of Construction approval allows for the construction and operation of the 219-S Support Building and enclosure over Cells A and B in the 219-S Waste Handling Facility. The 219-S Support Building is a pre-engineered structure with an attached and enclosed staging area. The enclosure over Cells A and B will allow for the movement of large equipment to and from the cell area.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 300 Area Fuel Supply Deactivation Activities, Rev.1

Issuance Date: 08/22/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of the Application to Construct (October 3, 1996) and the Notice of Construction (October 14, 1996) allowed the decontamination, dismantling, and removing equipment and structures contaminated with radiological materials from the 300 Area fuel supply shutdown facilities.

While performing radiological material decontamination activities, it was determined that the work could not be completed under the terms and conditions of the Notices of Construction, Rev. 0 and Rev. 1. Consequently, Revision 2 of the Notice of Construction was submitted on February 17, 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 96-1001

Permitted Unit: 300 Area Fuel Supply Shutdown Facilities

Issuance Date: 10/14/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of the Application to Construct (October 3, 1996) and the Notice of Construction (October 14, 1996) allowed the decontamination, dismantling, and removing equipment and structures contaminated with radiological materials from the 300 Area fuel supply shutdown facilities.

While performing radiological material decontamination activities, it was determined that the work could not be completed under the terms and conditions of the Notices of Construction, Rev. 0 and Rev. 1. Consequently, Revision 2 of the Notice of Construction was submitted on February 17, 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-803

Permitted Unit: 300 Area Fuel Supply Shutdown Activities, Rev.1

Issuance Date: 08/13/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of the Application to Construct (October 3, 1996) and the Notice of Construction (October 14, 1996) allowed the decontamination, dismantling, and removing equipment and structures contaminated with radiological materials from the 300 Area fuel supply shutdown facilities.

While performing radiological material decontamination activities, it was determined that the work could not be completed under the terms and conditions of the Notices of Construction, Rev. 0 and Rev. 1. Consequently, Revision 2 of the Notice of Construction was submitted on February 17, 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 300 Area Fuel Supply Shutdown Facilities

Issuance Date: 08/22/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of the Application to Construct (October 3, 1996) and the Notice of Construction (October 14, 1996) allows the decontamination, dismantling, and removing equipment and structures contaminated with radiological materials from the 300 Area fuel supply shutdown facilities.

While performing radiological material decontamination activities, it was determined that the work could not be completed under the terms and conditions of the Notices of Construction, Rev. 0 and Rev. 1. Consequently, Revision 2 of the Notice of Construction was submitted on February 17, 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: 300 Area Fuel Supply Shutdown Activities, Rev.2

Issuance Date: 02/17/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of the Application to Construct (October 3, 1996) and the Notice of Construction (October 14, 1996) allowed the decontamination, dismantling, and removing equipment and structures contaminated with radiological materials from the 300 Area fuel supply shutdown facilities.

While performing radiological material decontamination activities, it was determined that the work could not be completed under the terms and conditions of the Notices of Construction, Rev. 0 and Rev. 1. Consequently, Revision 2 of the Notice of Construction was submitted on February 17, 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 95-903

Permitted Unit: Cleanout of B-Cell in the 324 Building

Issuance Date: 09/18/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the construction and operation of B Cell cleanout activities.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Removal of Electrostatic Precipitator Supporting Cleanout of B-Cell in the  
324 Building

Issuance Date: 08/18/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the removal of the electrostatic precipitators and in-cell particulate filters to gain access to and removal of the 2-A rack.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Shortform Approval

Permitted Unit: Isolation of Radioactive Liquid Waste System Line In Valve Box 11 Outside the  
324 Facility

Issuance Date: 07/07/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows for physical isolation of the Radioactive Liquid Waste System in valve box-11. Isolation will be accomplished by cutting out approximately 12 inches of a 2-inch diameter line, including a ball valve, and capping each end of the remaining pipe. Work is scheduled for September 1999.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Shortform Approval

Permitted Unit: Decontamination and Stabilization Activities For 309 Plutonium Recycle Test Reactor

Issuance Date: 08/18/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( )                      No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed for decontamination and stabilization activities necessary to place the 309 Plutonium Recycle Test Reactor in a safe condition for long-term surveillance and maintenance until the facility undergoes decontamination and demolition. The proposed activities involve housekeeping, decontamination, stabilization, and removal of radiologically contaminated liquid and materials (e.g., hand tools, scaffolding, I-Beam, etc.).

There were no compliance issues or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Decontamination and Stabilization Activities For 309 Plutonium Recycle Test  
Reactor

Issuance Date: 11/08/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for decontamination and stabilization activities necessary to place the 309 Plutonium Recycle Test Reactor in a safe condition for long-term surveillance and maintenance until the facility undergoes decontamination and demolition. The proposed activities involve housekeeping, decontamination, stabilization, and removal of radiologically contaminated liquid and materials (e.g., hand tools, scaffolding, I-Beam, etc.).

There were no compliance issues or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-604

Permitted Unit: 340-A Building Tank Sludge Cleanout

Issuance Date: 06/19/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed removal of 340-A Building tank solids. Future solids removal campaigns will be performed on an as-needed basis to support as low as reasonably achievable (ALARA) practices and/or principles. No more than one tank solids removal campaign will be performed annually.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: 340-A Building Tank Sludge Cleanout

Issuance Date: 07/17/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

This application approval allowed removal of 340-A Building tank solids. Future solids removal campaigns will be performed on an as-needed basis to support as low as reasonably achievable (ALARA) practices and/or principles. No more than one tank solids removal campaign will be performed annually.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Nonradioactive Air Emissions Program Notice of Construction  
WAC 173-400, WAC 173-460

Permitting Agency: Washington State Department of Ecology

Permit No: 97NM-137

Permitted Unit: 340-A Building Tank Solids Removal

Issuance Date: 05/05/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed removal of 340-A Building tank solids. Future solids removal campaigns will be performed on an as-needed basis to support as low as reasonably achievable (ALARA) practices and/or principles. No more than one tank solids removal campaign will be performed annually.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Shortform Approval

Permitted Unit: Operation of the 4843 Building Waste Inspection Facility

Issuance Date: 04/17/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows for the sitewide collection, unloading, inspection, and radiological surveys of garbage within the 4843 Building and subsequent reloading of the garbage for transport to a receiving facility. Before disposal at a permitted disposal facility, the garbage is collected in trucks and transported to the 4843 Building in the 400 Area where the garbage is unloaded from the trucks, spread out on the floor of the building, and radiologically surveyed. Monitoring is the major approval condition.

There were no unusual problems or compliance issues during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Construction and Operation of Sodium Storage Facility

Issuance Date: 02/08/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed for construction of the Sodium Storage Facility in accordance with descriptions contained in the application. The Sodium Storage Facility supports the sodium offload from the Fast Flux Test Facility during transition to decommissioning. The Sodium Storage Facility receives molten sodium coolant from the Fast Flux Test Facility, stores the sodium in a solid state for an extended period, and melts the sodium for transfer to a future Sodium Reaction Facility. Construction was completed in October 1996. Currently the tanks and piping are inerted with argon. Layup activities are complete that allow the facility to be locked. Minimal surveillance and maintenance is required while the Fast Flux Test Facility remains in standby awaiting a decision regarding future operation.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Air 95-204

Permitted Unit: Construction and Operation of Sodium Storage Facility

Issuance Date: 02/24/95

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed construction of the Sodium Storage Facility in accordance with descriptions contained in the application. The Sodium Storage Facility supports the sodium offload from the Fast Flux Test Facility during transition to decommissioning. The Sodium Storage Facility receives molten sodium coolant from the Fast Flux Test Facility, stores the sodium in a solid state for an extended period, and melts the sodium for transfer to a future Sodium Reaction Facility. Approval of the Notice of Construction was granted with the understanding that the technology standards identified during the definitive design process would be submitted to WDOH when available, along with the associated costs of construction. Subsequently, the technology standards were submitted August 8, 1995, and the costs of construction were submitted August 22, 1995. Construction of the facility was completed in October 1996.

Currently the tanks and piping are inerted with argon. Layup activities are complete that allow the facility to be locked. Minimal surveillance and maintenance is required while the Fast Flux Test Facility remains in standby awaiting a decision regarding future operation.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 97-1203

Permitted Unit: Fast Flux Test Facility Ion Exchange Resin Columns Changeout

Issuance Date: 12/10/97

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed changeout of the ion exchange columns in accordance with descriptions contained in the application. The ion exchange system cleans the water used to wash residual sodium off of Fast Flux Test Facility core components. When the ion exchange columns become saturated with impurities, the columns are replaced with new columns.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Fast Flux Test Facility Ion Exchange Resin Columns Changeout

Issuance Date: 01/13/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allows change out of ion exchange columns in accordance with descriptions contained in the application. The ion exchange system cleans the water used to wash residual sodium off of Fast Flux Test Facility core components. When the ion exchange columns become saturated with impurities, the columns are replaced with new columns.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: EPS 90-275

Permitted Unit: Waste Sampling and Characterization Facility

Issuance Date: 06/11/90

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed construction of the Waste Sampling and Characterization Facility in the 600 Area using approved radionuclide air emissions control equipment in accordance with descriptions contained in the application. The Waste Sampling and Characterization Facility provides the sample analyses necessary to support remediation on the Hanford Site. No revisions of this Notice of the Construction have been submitted to WDOH.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit (X)

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: NOC revision approval

Permitted Unit: Waste Sampling and Characterization Facility

Issuance Date: 01/19/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows the Waste Sampling and Characterization Facility in the 600 Area to use approved radionuclide air emissions control equipment in accordance with descriptions contained in the application. The Waste Sampling and Characterization Facility provides the sample analyses necessary to support remediation on the Hanford Site. This approval is a revision to the original NOC.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Recovery of Radioactive Material from the City of Richland Landfill and  
Transportation to Burial Ground

Issuance Date: 10/07/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows the recovery of radioactive material from the city of Richland landfill and to transport the material to a 200 West Area low-level burial ground. Ambient air sampling is an approval condition.

The operation was compliant and there were no problems.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit (X)

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Recovery of Radioactive Material from the City of Richland Landfill and  
Transportation to Burial Ground

Issuance Date: 10/08/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allows the recovery of radioactive material from the city of Richland landfill and to transport the material to a 200 West Area low-level burial ground. Ambient air sampling is an approval condition.

The operation was compliant and there were no problems.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Drilling System

Issuance Date: 10/08/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the use of an air-assisted drilling and containment system for development of groundwater monitoring wells to support RCRA project characterization.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61, Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Portable/Temporary Radionuclide Airborne Emissions Units

Issuance Date: 01/21/94

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the construction and operation of portable/temporary radionuclide airborne emissions units on the Hanford Site.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-1008

Permitted Unit: Portable/Temporary Radionuclide Airborne Emissions Units

Issuance Date: 10/22/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allows the construction and operation of three types of portable/temporary radionuclide airborne emissions units. The three types are portable ventilation-filter systems (Type I), mobile sample preparation facilities (Type II), and mobile sample screening and analysis.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: Routine Technical Assistance Meeting

Permitted Unit: Sitewide Vented Container Storage

Issuance Date: 09/19/96

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

As low as reasonably achievable control technology, best available radionuclide control technology, and notice of construction for Hanford Site vented containers, allowed storage of vented containers on the Hanford Site.

There were no compliance issues, major permit conditions, or unusual problems associated with this project during this reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Radioactive Air Emissions Program Notice of Construction  
WAC 246-247

Permitting Agency: Washington State Department of Health

Permit No: AIR 98-1215

Permitted Unit: Use of the Guzzler™ Vacuum Excavation System for Radiologically Limited  
Activities on the Hanford Site

Issuance Date: 12/18/98

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this Notice of Construction allowed the use of the Guzzler™ and other methods for excavations at various areas on the Hanford Site. Approval conditions include maintaining a log of activities, emission limits by area, and a stop work requirement when wind is 20 miles per hour or greater.

There were no problems and operations have been in compliance with conditions.

™ Guzzler Manufacturing, Inc.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: National Emission Standards for Hazardous Air Pollutants (NESHAPs)  
40 CFR 61 Subpart H

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit No: Letter

Permitted Unit: Use of the Guzzler™ Vacuum Excavation System for Radiologically Limited  
Activities on the Hanford Site

Issuance Date: 03/11/99

Expiration Date: NA

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Approval of this application allowed the use of the Guzzler™ and other methods for excavations at various areas on the Hanford Site. Approval conditions include maintaining a log of activities, emission limits by area, and a stop work requirement when wind is 20 miles per hour or greater.

There were no problems and operations have been in compliance with conditions.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

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## **12.0 CLEAN WATER ACT**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: National Pollutant Discharge Elimination System (NPDES) - 40 CFR 122

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit Number: WA-002591-7

Permitted Unit: 001A, 003004

Issuance Date: 04/02/99

Expiration Date: Refer to Note

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

The NPDES governs discharges to the Columbia River. The major permit conditions include discharge points, effluent limitations, and monitoring requirements. The Hanford Site NPDES Permit was reissued on May 5, 1999 and no longer includes the 013A, 005, 006, 007, 009, and N-Springs Outfalls.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Industrial Pretreatment Permit - 40 CFR 403 and city of Richland Ordinance 7-96

Permitting Agency: City of Richland, Water and Waste Utilities

Permit Number: CR-IU005

Permitted Unit: Environmental Molecular Science Laboratory

Issuance Date: 10/01/96

Expiration Date: 10/01/01

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

City of Richland Industrial Wastewater Discharge Permit CR-IU005 provides authorization to discharge industrial wastewater from the Environmental Molecular Sciences Laboratory to the Richland sanitary sewer system.

The permit established specific wastewater discharge limitations and monitoring requirements for the process wastewater discharged from EMSL. The permit limits are based on general and specific National Prohibited Discharges [40 CFR 403.5(a) and (b)], and a combination of local and federal limits. Sanitary wastewater generated from restrooms, kitchens, and drinking fountains from the administrative area are discharged directly to the Richland sanitary sewer system and are exempt from permitting.

To date, the operational status of the EMSL process sewer remains in compliance with permit requirements. No exceedences of the permit limitations have occurred since the effective date of the permit.

Compiled by: Pacific Northwest National Laboratory  
Environmental Management Services

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( ☒ )

Renewal ( )

New Permit ( )

Permit Type: Storm Water General Permit, No.: WA-R-000-00F, National Pollutant Discharge Elimination System (NPDES) - 40 CFR 122

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit Number: WA-R-00A17F

Permitted Unit: Hanford Site (Storm Water General Permit)

Issuance Date: 04/94

Expiration Date: 09/09/97

Termination Date: 09/30/98

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( ☒ )  
If yes, HQ Program Element \_\_\_\_\_

**Brief Summary of Relevant Information** (major permit conditions, status of compliance or unusual problems):

In the September 30, 1998, Federal Register, Volume 63, the U.S. Environmental Protection Agency (EPA) notified facilities permitted under the National Pollutant Discharge Elimination System Baseline Industrial General Storm Water Permit (Permit) that the Permit had been terminated. The EPA directed facilities to pursue continued storm water permit coverage under the National Pollutant Discharge Elimination System Multi-Sector General Permit through submittal of a Notice of Intent by December 29, 1998.

On December 28, 1998, DOE-RL submitted a notice of intent to EPA for continued storm water discharge coverage under the Multi-Sector General Permit for the 1908-K Outfall at 100-K Area. Based on an evaluation of the National Pollutant Discharge Elimination System storm water program and annual Hanford Site storm water shoreline inspections from Bechtel Hanford, Inc., Pacific Northwest National Laboratory, DynCorp Tri-Cities Services, Inc., and Waste Management Federal Services of Hanford, Inc., a determination was made that remaining outfalls previously covered under the Permit do not require coverage under the Multi-Sector General Permit.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: NPDES Multi-Sector Storm Water Permit

Permitting Agency: U.S. Environmental Protection Agency, Region 10

Permit Number: Sector O

Permitted Unit: 1908-K Outfall

Issuance Date: December 31, 1999

Expiration Date: TBD

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

In the September 30, 1998, Federal Register, Volume 63, the EPA notified facilities permitted under the National Pollutant Discharge Elimination System Baseline Industrial General Storm Water Permit (Permit) that the Permit had been terminated. The EPA directed facilities to pursue continued storm water permit coverage under the National Pollutant Discharge Elimination System Multi-Sector General Permit through submittal of a Notice of Intent by December 29, 1998.

On December 28, 1998, DOE-RL submitted a notice of intent to EPA for continued storm water discharge coverage under the Multi-Sector General Permit for the 1908-K Outfall at 100-K Area.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



### **13.0 NATIONAL PARK SERVICE REVIEW**

No activity this reporting period.

## **14.0 AQUATIC LANDS LEASE**

No activity this reporting period.

## **15.0 HYDRAULIC PROJECT APPROVAL**

No activity this reporting period.

## **16.0 WATER QUALITY STANDARDS MODIFICATION**

No activity this reporting period.



## **17.0 STATE WASTE DISCHARGE**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: State Waste Discharge Permit - WAC 173-216

Permitting Agency: Washington State Department of Ecology

Permit Number: ST 4507

Permitted Unit: 100-N Sewage Lagoon

Issuance Date: 05/12/97

Expiration Date: 05/12/02

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Ecology Consent Order DE 91NM-177 lists regulatory milestones for liquid effluent streams on the Hanford Site to comply with the permitting requirements of WAC 173-216 (State Waste Discharge Program) or WAC 173-218 (Washington Underground Injection Control Program) where applicable. As a result, a WAC 173-216 State Waste Discharge Permit application was submitted for the 100-N Sewage Lagoon. The 100-N Sewage Lagoon receives sewage from facilities in the 100-N Area and from septic systems and holding tanks located across the Hanford Site. A Consent Order DE 91NM-177 milestone was satisfied with the submittal of the permit application to Ecology in June 1994. The final permit was issued May 12, 1997.

Compliance issue associated with discharges and administration controls were experienced during the reporting period.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: State Waste Discharge Permit - WAC 173-216

Permitting Agency: Washington State Department of Ecology

Permit Number: ST 4503

Permitted Unit: 183-N Backwash Discharge Pond

Issuance Date: 05/12/97

Expiration Date: 05/12/02

Need for Headquarters' Action

Yes ( ) No ( X )

(for permit renewals or new permits)

If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Ecology Consent Order DE 91NM-177 lists regulatory milestones for liquid effluent streams at the Hanford Site to comply with the permitting requirements of WAC 173-216 (State Waste Discharge Program) or WAC 173-218 (Washington Underground Injection Control Program) where applicable. As a result, a WAC 173-216 State Waste Discharge Permit application (DOE/RL-94-23, Rev. 0) was submitted for the 183-N Filter Backwash Stream. The 183-N Filter Backwash Stream consists of waste water produced by backwashing the multimedia filter basins at the 183-N Water Treatment Facility. A Consent Order DE 91NM-177 milestone was satisfied with the submittal of the permit application to Ecology in June 1994. Ecology issued a final permit on May 12, 1997.

Compliance with the permit conditions has been maintained during the reporting period.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: State Waste Discharge Permit - WAC 173-216

Permitting Agency: Washington State Department of Ecology

Permit Number: ST 4500

Permitted Unit: 200 Area Effluent Treatment Facility

Issuance Date: 06/26/95

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

The State Waste Discharge Permit for the 200 Area Effluent Treatment Facility governs discharges of treated wastewater to the State Approved Land Disposal Site. The permit conditions include influent and effluent limitations, and monitoring requirements.

ST 4500 will expire in June 2000 and a new permit application will be submitted in December 1999.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: State Waste Discharge Permit - WAC 173-216

Permitting Agency: Washington State Department of Ecology

Permit Number: ST 4502

Permitted Unit: 200 Area Treated Effluent Disposal Facility, Project W-049H

Issuance Date: 04/18/95

Expiration Date: 04/18/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

State Waste Discharge Permit ST 4502 provides the terms and conditions that regulate the discharge of treated wastewater from the 200 Area Treated Effluent Disposal Facility to the soil. Additional waste streams were added to the 200 Area Treated Effluent Disposal Facility in 1997. These new waste streams are the remaining streams associated with the C-lobe of B Pond. Permitting efforts associated with these new waste streams have been completed and approved by Ecology.

Compliance with the permit conditions has been maintained except for several iron, manganese, and chromium exceedences and an emergency new flow to the C-lobe of B Pond during June 1999.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: State Waste Discharge Permit - WAC 173-216

Permitting Agency: Washington State Department of Ecology

Permit Number: ST 4501

Permitted Unit: 400 Area Secondary Cooling Water

Issuance Date: 07/31/96

Expiration Date: 07/31/01

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

State Waste Discharge Permit ST 4501 provides the terms and conditions that regulate the discharge of wastewater from the 400 Area Secondary Cooling Water Stream. The 400 Area Secondary Cooling Water stream includes contributing streams for the Fuel Material Examination Facility, Maintenance and Storage Facility, 481-A Pump House, and the Fast Flux Test Facility. The effluent is discharged to the 4608 Percolation Pond. The Permit was issued in July 1996. In February 1998, the Permit was modified to support resolution of a compliance issue associated with the concentration of total dissolved solids in wastewater discharge.

The water quality parameters for total dissolved solids continues to be monitored.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X)

Renewal ( )

New Permit ( )

Permit Type: State Waste Discharge Permit - WAC 173-216

Permitting Agency: Washington State Department of Ecology

Permit Number: ST 4509

Permitted Unit: Hanford Site Cooling Water and Condensate Discharges

Issuance Date: 05/01/98

Expiration Date: 05/01/03

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

State Waste Discharge Permit ST 4509 permits cooling water and steam condensate discharges on the Hanford Site. The permit required the preparation and submittal of a pollution prevention plan to Ecology for compliance. The pollution prevention plan was submitted to Ecology in October 1998 and approved by Ecology on November 23, 1998.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit (X )

Renewal ( )

New Permit ( )

Permit Type: Categorical State Waste Discharge Permit - WAC 173-216

Permitting Agency: Washington State Department of Ecology

Permit Number: ST 4508

Permitted Unit: Hanford Site Hydrotesting, Maintenance, and Construction Discharges

Issuance Date: 05/30/97

Expiration Date: 05/30/02

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

State Waste Discharge Permit ST 4508 permits hydrotesting, maintenance, and construction discharges on the Hanford Site. The permit identified specific discharge requirements and best management practice. The permit also required submittal of a pollution prevention plan. The pollution prevention plan was approved by Ecology on January 9, 1998.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: State Waste Discharge Permit (WAC 173-216)

Permitting Agency: Washington State Department of Ecology

Permit Number: ST 4510

Permitted Unit: Hanford Site Industrial Stormwater Discharges to Land

Issuance Date: April 1, 1999

Expiration Date: April 1, 2004

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

State Waste Discharge Permit ST 4510 allows Industrial storm water discharges to engineered disposal structures. The Permit identifies discharge requirements and compliance with best management practices. The Permit also requires preparation and submittal of a pollution prevention and best management practices plan to Ecology on October 1, 1999.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Underground Injection Control Program - WAC 173-218

Permitting Agency: Washington State Department of Ecology

Permit Number: TBD

Permitted Unit: Class V Underground Injection Wells

Issuance Date: TBD

Expiration Date: TBD

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Information for registration of all Class V injection wells that inject industrial, municipal, or commercial waste fluids into or above an underground source of drinking water was submitted to Ecology on August 7, 1995, in accordance with commitments identified in the Plan and Schedule for Disposition and Regulatory Compliance for Miscellaneous Streams documentation. This represented the last registration of this information.

Future revisions to the registration are contingent on available funding sources.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

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## **18.0 ONSITE SEWAGE SYSTEM**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 100B/C Area Septic Holding Tank System

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Holding tank sewage systems are permitted once in accordance with WAC 246-272-12501. Through negotiations with WDOH, the DOE-RL is allowed to install holding tank sewage systems on a temporary basis. The 100B/C Area septic holding tank is a permitted holding tank system with a design capacity of 1,136 liters per day.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 100D Area Septic Holding Tank System

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Holding tank sewage systems are permitted once in accordance with WAC 246-272-12501. Through negotiations with WDOH, the DOE-RL is allowed to install holding tank sewage systems on a temporary basis. The D-Area septic holding tank is a permitted holding tank system with a design capacity of 757 liters per day.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 105-KE Holding Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Holding tank sewage systems are permitted once in accordance with WAC 246-272-12501. The 105-KE Area support facility septic holding tank is a permitted holding tank system with a design capacity of 5,715 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 105-KW Septic Holding Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Holding tank sewage systems are permitted once in accordance with WAC 246-272-12501. The 105-KW Area support facility septic holding tank is a permitted tank system with a design capacity of 8,585 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

**Permitted Unit: 183-KE Septic Holding Tank**

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

The 183-KE Septic Tank (Project 183-KE serving mobile office MO-293 in the 100 Area) is a large permitted onsite septic system with a design capacity of 5,678 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2750-E and Adjacent Facilities Septic System

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems, septic systems with a design flow of greater than 13,249 liters per day, are permitted annually in accordance with WAC 246-272-08001. The 2750-E septic system is a large permitted onsite septic system with a design capacity of 55,000 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 222-S Laboratory Complex, Septic System

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems are permitted once in accordance with WAC 246-272-12501. Through negotiations with WDOH, DOE-RL is allowed to install large onsite septic systems on a temporary basis for up to 5 years. The 222-S Laboratory Complex septic system has a design capacity of 50,000 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal (X)

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 1607-K4 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No (X)  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems, with a design flow of greater than 13,249 liters (3,500 gallons) per day, are permitted annually in accordance with WAC 246-272-08001. The 1607-K4 septic tank (Project 1607-K4 serving mobile offices MO-401 and MO-402 in the 100-K Area) is a large permitted onsite septic system with a design capacity of 14,384 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2607-EL, EM, EN, ED, and EP Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems, with a design flow of greater than 13,249 liters per day, are permitted annually in accordance with WAC 246-272-08001. The 2607-EP septic tank (Project L-132 serving building 2721-EA and adjacent facilities) is a large permitted onsite septic system with a design capacity of 54,888 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2607-EQ Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems, with a design flow of greater than 13,249 liters per day, are permitted annually in accordance with WAC 246-272-08001. The 2607-EQ septic tank (Project L-092 serving buildings 2751-E, 2752-E, and 2753-E in the 200 East Area) is a large permitted onsite septic system with a design capacity of 54,131 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2607-E10 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, currently are permitted once in accordance with WAC 246-272-09001. The 2607-E10 septic tank (Project W-299, Grout Processing Support Facility) is a permitted onsite septic system with a design capacity of 4,164 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2607-E12 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems, with a design flow of greater than 13,249 liters per day, are permitted annually in accordance with WAC 246-272-08001. The 2607-E12 septic tank (Project W-172 serving buildings 272-AW, 242-A, and adjacent trailer units in the 200 East Area) is a large permitted onsite septic system with a design capacity of 25,400 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health

Permit Number: HAN099

Permitted Unit: 2607-E13 Septic Holding Tank System

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems with a design flow of less than 13,249 liters per day, currently are permitted once in accordance with WAC 246-272-09001. The 2607-E13 for ERS support facility septic holding tank is a permitted onsite septic tank system with a design capacity of 3,293 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2607-WA East and West Septic Tanks

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, currently are permitted once in accordance with WAC 246-272-09001. The 2607-WA East and West septic tanks are permitted onsite septic systems with a total design capacity of 4,920 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2607-W1, W2, and W3 Septic Tanks

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems, with a design flow of greater than 13,249 liters per day, are permitted annually in accordance with WAC 246-272-08001. The 2607-W1, W2, and W3 septic tanks are a large permitted onsite septic system with a design capacity of 54,900 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health

Permit Number: HAN099

Permitted Unit: 2607-W10 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, currently are permitted once in accordance with WAC 246-272-09001. The 2607-W10 septic tank is a permitted onsite septic system with a design capacity of 7,190 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( ☒ )

Renewal ( ☐ )

New Permit ( ☐ )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health

Permit Number: HAN099

Permitted Unit: 2607-W11 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ☐ ) No ( ☒ )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, currently are permitted once in accordance with WAC 246-272-09001. The 2607-W11 septic tank is a permitted onsite septic system with a design capacity of 4,920 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2607-W12 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, currently are permitted once in accordance with WAC 246-272-09001. The 2607-W12 septic tank is a permitted onsite septic system with a design capacity of 4,920 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2607-W14 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, currently are permitted once in accordance with WAC 246-272-09001. The 2607-W14 septic tank is a permitted onsite septic system with a design capacity of 9,462 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2607-W15 Septic Tank

Issuance Date: 10/17/98

Expiration Date: 09/30/99

Need for Headquarters' Action

Yes ( ) No ( X )

(for permit renewals or new permits)

If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, currently are permitted once in accordance with WAC 246-272-09001. The 2607-W15 septic tank is a large permitted onsite septic system with a design capacity of 10,220 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

**Permitted Unit: 6607-9 Septic Tank**

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems, with a design flow of greater than 13,249 liters per day, are permitted annually in accordance with WAC 246-272-08001. The 6607-9 septic tank is a large permitted onsite septic system with a design capacity of 25,356 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 6607-11 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems, with a design flow of greater than 13,249 liters per day, are permitted annually in accordance with WAC 246-272-08001. The 6607-11 septic tank is a large permitted onsite septic system with a design capacity of 44,739 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health

Permit Number: HAN099

Permitted Unit: 6607-13 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, are permitted once in accordance with WAC 246-272-09001. The 6607-13 septic tank is a permitted onsite septic system with a design capacity of 10,790 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 6607-16 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems, with a design flow of greater than 13,249 liters per day, are permitted annually in accordance with WAC 246-272-08001. The 6607-16 septic tank is a large permitted onsite septic system with a design capacity of 18,927 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 6607-17 Septic Tank

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, currently are permitted once in accordance with WAC 246-272-09001. The 6607-17 septic tank is a permitted onsite septic system with a design capacity of 1,365 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: Cold Vacuum Drying Facility Septic Holding Tank

Issuance Date: 10/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Holding tank sewage systems are permitted once in accordance with WAC 246-272-12501. The Cold Vacuum Drying support facility septic tank is a permitted tank system with a design capacity of 3,085 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: **Environmental Restoration Disposal Facility Construction Trailer Septic Holding Tank System**

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Holding tank sewage systems are permitted once in accordance with WAC 246-272-12501. Through negotiations with WDOH, the DOE-RL is allowed to install holding tank sewage systems on a temporary basis. The Environmental Restoration Disposal Facility construction trailer septic holding tank system is a permitted holding tank system with a design capacity of 227 liters per day.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: Environmental Restoration Disposal Facility Onsite Sewage System

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Sewage systems are permitted once in accordance with WAC 246-272. The Environmental Restoration Disposal Facility septic tank sewage system (Project W-296) has a design capacity of 2,841 liters per day.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: Environmental Restoration Disposal Facility Shop Facility Septic Holding Tank System

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Holding tank sewage systems are permitted once in accordance with WAC 246-272-12501. Through negotiations with WDOH, the DOE-RL is allowed to install holding tank sewage systems on a temporary basis. The Environmental Restoration Disposal Facility shop septic holding tank is a permitted holding tank system with a design capacity of 795 liters per day.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 100 DR Area Onsite Sewage System

Issuance Date: 12/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Sewage systems are permitted once in accordance with WAC 246-272. DOE-RL constructed and installed a conventional pressure distribution system conforming to the 1993 WDOH "Design Standards for Large On-Site Sewage Systems" for the environmental restoration contractor decontamination and decommissioning project trailers located at 100 DR Area. The system is designed to allow usage for up to 65 people per day.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health

Permit Number: HAN099

Permitted Unit: 300-FF-1 Operable Unit Septic Holding Tank System

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, are permitted once in accordance with WAC 246-272-09001. The 300-FF-1 Operable Unit support facility septic holding tank is a permitted onsite septic tank system with a design capacity of 1,050 liters per day.

Compiled by: Bechtel Hanford, Inc.  
Regulatory Support

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: HWVP Septic Tank System

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Onsite septic systems, with a design flow of less than 13,249 liters per day, are permitted annually in accordance with WAC 246-272-09001. The HWVP septic system located in the 200 East Area has a design capacity of 11,355 liters per day.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( X )

Renewal ( )

New Permit ( )

Permit Type: Onsite Sewage System - WAC 246-272

Permitting Agency: Washington State Department of Health - Spokane

Permit Number: HAN099

Permitted Unit: 2607-E1A (200 E Central Core Septic System)

Issuance Date: 09/24/98

Expiration Date: 09/30/99

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Large onsite septic systems, septic systems with a design flow greater than 13,249 liters per day, are permitted annually in accordance with WAC 246-272-08001. The 200 E Central Core Septic System is a large system with a design capacity of 55,600 liters per day that serves the 200 Area Plateau.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

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## **19.0 PETROLEUM UNDERGROUND STORAGE TANK**

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DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 181B-66

Permitted Unit: 100B Area, 181B-66 Tank

Issuance Date: 10/17/97

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 181B-66 tank contained diesel fuel. A tank permit was renewed with Master Business License 601 310 923.

This tank temporarily is closed under WAC 173-360.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 204-AR

Permitted Unit: 200 East Area, 204-AR Tank

Issuance Date: 06/30/98

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 204-AR tank contains diesel fuel. The tank permit was renewed with Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 242-A-1

Permitted Unit: 200 East Area, 242-A-1 Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 242-A-1 tank contains diesel fuel. The tank permit was renewed with Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 2711E-66

Permitted Unit: 200 East Area, 2711-66 Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 2711-66 tank contains used oil. The tank permit was renewed with Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 2711E-66

Permitted Unit: 200 East Area, 2711-66A Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 2711-66A tank contains used oil. The tank permit was renewed with Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 2721Z-2

Permitted Unit: 200 West Area, 2721Z-2 Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action

Yes ( ) No ( X )

(for permit renewals or new permits)

If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 2721Z-1 tank contains diesel fuel. The tank permit was renewed with Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999



DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 3621-C

Permitted Unit: 300 Area, 3621-C Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 3621-C tank contains diesel fuel. The tank permit was renewed with Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 3621-66

**Permitted Unit:** 300 Area, 3621-66 Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 3621-66 tank contains diesel fuel. A new underground storage tank permit was submitted with Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( X )

New Permit ( )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 400-FFTF-T303

Permitted Unit: 400 Area, 400-FFTF-T303 Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 400-FFTF-T303 tank contains diesel fuel. The tank permit was renewed with Master Business License 601 310 923 issued.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 6291-66

Permitted Unit: 600 Area, 6291-66 Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 6291-66 tank contains diesel fuel. A new underground storage tank permit was submitted with Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 6291-66A

Permitted Unit: 600 Area, 6291-66A Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 6291-66A tank contains diesel fuel. A new underground storage tank permit was submitted with a Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 1172-66

Permitted Unit: 1100 Area, 1172-66 Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 1172-66 tank contains diesel fuel. A new underground storage tank permit was submitted with a Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

DOE Operations Office: Richland

DOE Facility: Hanford Site

Existing Permit ( )

Renewal ( )

New Permit ( X )

Permit Type: Annual Permit for Active Petroleum Underground Storage Tanks - WAC 173-360

Permitting Agency: Washington State Department of Ecology

Permit Number: 1172-66A

Permitted Unit: 1100 Area, 1172-66A Tank

Issuance Date: 06/30/99

Expiration Date: 06/30/00

Need for Headquarters' Action  
(for permit renewals or new permits)

Yes ( ) No ( X )  
If yes, HQ Program Element \_\_\_\_\_

Brief Summary of Relevant Information (major permit conditions, status of compliance or unusual problems):

Annual permits and information updates are required each year for each active petroleum underground storage tank on the Hanford Site. The petroleum underground storage tanks store used oil, supply gasoline fuel for site vehicles, and supply diesel fuel for site vehicles and emergency generator systems. The 1172-66A tank contains diesel fuel. A new underground storage tank permit was submitted with a Master Business License 601 310 923.

Compiled by: Waste Management Federal Services of Hanford, Inc.  
for Fluor Daniel Hanford, Inc.

Date: July 31, 1999

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## REFERENCES

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