

Permit Number: WA7 89000 8967

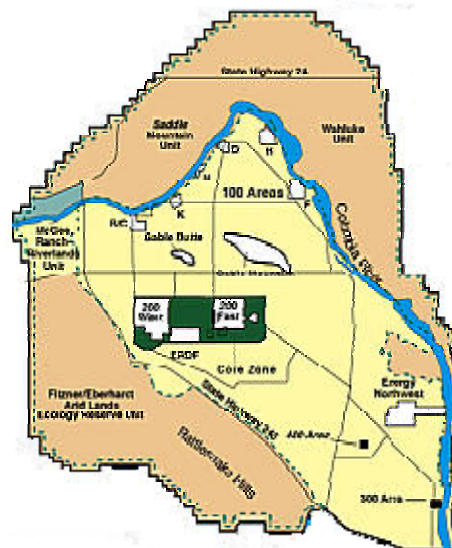
Revision Number: 8C



# Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste Portion

Revision 8C

For the Treatment, Storage, and Disposal of Dangerous Waste



Washington State Department of Ecology  
Nuclear Waste Program

October 2007

Permit Number: WA7 89000 8967  
Revision Number: 8C

For additional copies of this permit contact:

Washington State Department of Ecology  
3100 Port of Benton Boulevard  
Richland, Washington 99354-1670  
509-372-7950

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*Department of Ecology Headquarters telecommunications device for the deaf (TDD) number is: (360) 407-6006*

1 **DANGEROUS WASTE PORTION OF THE**  
2 **RESOURCE CONSERVATION AND RECOVERY ACT PERMIT**  
3 **FOR THE TREATMENT, STORAGE, AND DISPOSAL OF DANGEROUS WASTE**

4 Washington State Department of Ecology  
5 Nuclear Waste Program  
6 3100 Port of Benton Boulevard  
7 Richland, Washington 99354  
8 Telephone: 509-372-7950

9 Issued in accordance with the applicable provisions of the Hazardous Waste Management Act,  
10 Chapter [70.105](#) Revised Code of Washington (RCW), and the regulations promulgated there under in  
11 [Chapter 173-303](#) Washington Administrative Code (WAC).

---

12 **ISSUED TO:**

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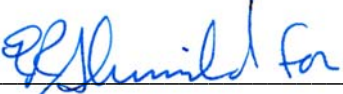
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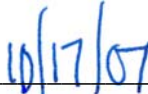
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13 This Permit as modified on October 22, 2007, will remain in effect until reissuance of the  
14 September 27, 2004 Permit, unless revoked and reissued under [WAC 173-303-830\(3\)](#), terminated under  
15 [WAC 173-303-830\(5\)](#), or continued in accordance with [WAC 173-303-806\(7\)](#).

16 **ISSUED BY:**  
17 **WASHINGTON STATE DEPARTMENT OF ECOLOGY**

18   
19 \_\_\_\_\_  
19 Jane A. Hedges, Program Manager  
20 Nuclear Waste Program, Department of Ecology

Date:   
\_\_\_\_\_

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1 **List of Attachments**

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2 The following listed documents are attached in their entirety. However, only those portions of the  
3 attachments specified in Parts I through VI are enforceable conditions of this Permit and subject to the  
4 permit modification requirements of Permit Condition I.C.3. Changes to portions of the attachments,  
5 which are not subject to the permit modification process, will be addressed in accordance with Permit  
6 Conditions I.E.8, I.E.11, I.E.13, I.E.15, through I.E.20, and I.E.22. Ecology has, as deemed necessary,  
7 modified specific language in these attachments. These modifications are described in the conditions  
8 (Parts I through VI), and thereby supersede the language of the attachment.

- 9 Attachment 1 Hanford Federal Facility Agreement and Consent Order, (as amended)  
10 <http://www.hanford.gov/tpa/coverpg.htm>
- 11 Attachment 2 Hanford Facility Legal Description, from Class <sup>1</sup>1 modification, dated  
12 January 7, 1999
- 13 Attachment 3 Permit Applicability Matrix, dated March 2006
- 14 Attachment 4 *Hanford Emergency Management Plan*, DOE/RL-94-02 Revision 2, as amended and  
15 approved modifications
- 16 Attachment 5 Purgewater Management Plan, July 1990
- 17 Attachment 6 Hanford Well Maintenance and Inspection Plan, BHI-01265, Revision 0, May 1999
- 18 Attachment 7 Policy on Remediation of Existing Wells and Acceptance Criteria for RCRA and  
19 CERCLA, June 1990
- 20 Attachment 33 Hanford Facility Dangerous Waste Permit Application General Information Portion,  
21 DOE/RL-91-28, Revision 7, and approved modifications  
22

1 **Introduction**

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2 Where information regarding treatment, management, and disposal of the radioactive source, byproduct  
3 material, special nuclear material (as defined by the Atomic Energy Act of 1954, as amended) and/or the  
4 radionuclide component of mixed waste has been incorporated into this permit, it is not incorporated for  
5 the purpose of regulating the radiation hazards of such components under the authority of this permit or  
6 [Chapter 70.105 RCW](#).

7 Pursuant to [Chapter 70.105 RCW](#), the Hazardous Waste Management Act (HWMA) of 1976, as  
8 amended, [Chapter 70.105D RCW](#), the Model Toxics Control Act (MTCA), and regulations promulgated  
9 there under by the Washington State Department of Ecology (hereafter called Ecology), codified in  
10 [Chapter 173-303](#) Washington Administrative Code (WAC), Dangerous Waste Regulations, a Dangerous  
11 Waste Permit is issued to the United States Department of Energy (USDOE) - Richland Operations Office  
12 (RL) and Office of River Protection (ORP), [owner/operator], and its contractors, Fluor Hanford, Inc.  
13 (FH), [co-operator], Pacific Northwest National Laboratory (PNNL), [co-operator], CH2MHILL Hanford  
14 Group, Inc. (CH2MHILL), [co-operator], Washington Closure Hanford, LLC (WCH), [co-operator], and  
15 Bechtel National, Incorporated (BNI), [co-operator], hereafter called the Permittees, for the treatment,  
16 storage, and disposal of dangerous waste at the Hanford Facility.

17 This Dangerous Waste Permit, issued in conjunction with the United States Environmental Protection  
18 Agency's (hereafter called EPA) Hazardous and Solid Waste Amendments Portion of the Resource  
19 Conservation and Recovery Act (RCRA) Permit for the Treatment, Storage, and Disposal (TSD) of  
20 Hazardous Waste (HSWA Permit), constitutes the RCRA Permit for the Hanford Facility. Use of the  
21 term "Permit" within the Dangerous Waste Permit will refer to the Dangerous Waste Permit, while use of  
22 the term "Permit" within the HSWA Permit, will refer to the HSWA Permit. Use of the same term in both  
23 the Dangerous Waste Permit and the HSWA Permit, will have the standard meaning associated with the  
24 activities addressed by the permit in which the term is used. Such meanings will prevail, except where  
25 specifically stated otherwise.

26 The Permittees will comply with all terms and conditions set forth in this Permit and those portions of the  
27 Attachments that have been specifically incorporated into this Permit. When the Permit and the  
28 Attachments (except Permit Attachment 1) conflict, the wording of the Permit will prevail. The Permit is  
29 intended to be consistent with the terms and conditions of the Hanford Federal Facility Agreement and  
30 Consent Order ([HFFACO, Permit Attachment 1](#)). The Permittees will also comply with all applicable  
31 state regulations, including [Chapter 173-303 WAC](#).

32 Applicable state regulations are those which are in effect on the date of issuance, or as specified in  
33 subsequent modifications of this Permit. In addition, applicable state regulations include any self-  
34 implementing statutory provisions and related regulations which, according to the requirements of the  
35 HWMA, as amended, or other law(s), are automatically applicable to the Permittees' dangerous waste  
36 management activities, notwithstanding the conditions of this Permit.

37 This Permit is based upon the Administrative Record, as required by [WAC 173-303-840](#). The Permittees'  
38 failure in the application, or during the Permit issuance process, to fully disclose all relevant facts, or the  
39 Permittees' misrepresentation of any relevant facts at any time, will be grounds for the termination or  
40 modification of this Permit and/or initiation of an enforcement action, including criminal proceedings.  
41 The Permittees will inform Ecology of any deviation from the Permit conditions, or changes in the  
42 information on which the application is based, which would affect either the Permittees' ability to  
43 comply, or actual compliance with the applicable regulations or the Permit conditions, or which alters any  
44 condition of this Permit in any way.

1 Ecology will enforce all conditions of this Permit for which the State of Washington is authorized, or  
2 which are "state-only" provisions (i.e., conditions broader in scope or more stringent than the federal  
3 RCRA program). Any challenges of any Permit condition may be appealed in accordance with  
4 [WAC 173-303-845](#). In the event that any Permit condition is challenged by any Permittee under  
5 [WAC 173-303-845](#), Ecology may stay any such Permit condition as it pertains to all Permittees, in  
6 accordance with the same terms of any stay it grants to the challenging Permittee. If such a stay is  
7 granted, it will constitute a "stay by the issuing agency" within the meaning of [RCW 43.21B.320\(1\)](#).

8 This Permit has been developed to allow a step-wise permitting process of the Hanford Facility to ensure  
9 the proper implementation of the [HFFACO](#). In order to accomplish this, this Permit consists of six (6)  
10 parts.

11 **Part I, Standard Conditions**, contains conditions which are similar to those appearing in all dangerous  
12 waste permits.

13 **Part II, General Facility Conditions**, combines typical dangerous waste permit conditions with those  
14 conditions intended to address issues specific to the Hanford Facility. Where appropriate, the general  
15 facility conditions apply to all final status dangerous waste management activities at the Facility. Where  
16 appropriate, the general facility conditions also address dangerous waste management activities which  
17 may not be directly associated with distinct TSD units, or which may be associated with many TSD units  
18 (i.e., spill reporting, training, contingency planning, etc.). Part II also includes conditions that address  
19 corrective action at solid waste management units and areas of concern.

20 **Part III, Unit-Specific Conditions for Operating Units**, contains those Permit requirements that apply  
21 to each individual TSD unit operating under final status. Conditions for each TSD unit are found in a  
22 chapter dedicated to that TSD unit. These unit-specific chapters contain references to Standard  
23 Conditions (Part I) and General Conditions (Part II), as well as additional requirements which are  
24 intended to ensure that each TSD unit is operated in an efficient and environmentally protective manner.  
25 Additional requirements may also be added when an operating unit ceases operations and undergoes  
26 closure.

27 **Part IV, Unit-Specific Conditions for Corrective Action**, contains those permit requirements which  
28 apply to specific RPP units that are undergoing corrective action under the [HFFACO](#). RPP units may  
29 include solid waste management units and other areas of concern (i.e., releases that are not at solid waste  
30 management units and do not constitute a solid waste management unit) that are undergoing corrective  
31 action. For The Comprehensive Environmental Response, Conservation, and Liability Act (CERCLA)  
32 and RCRA past practice (RPP) units identified in the [HFFACO](#), the corrective action conditions are  
33 structured around continued coordination with, and reliance on, the investigation and cleanup  
34 requirements established under the [HFFACO](#). For TSD units identified in the [HFFACO](#), the corrective  
35 action conditions contemplate use of closure and post-closure processes to satisfy corrective action.

36 **Part V, Unit-Specific Conditions for Units Undergoing Closure**, contains those requirements which  
37 apply to those specific TSD units, included in this part, that are undergoing closure. In accordance with  
38 Section 5.3 of the Action Plan of the [HFFACO](#), all TSD units that undergo closure, irrespective of permit  
39 status, will be closed pursuant to the authorized State Dangerous Waste Program in accordance with  
40 [WAC 173-303-610](#). Requirements for each TSD unit undergoing closure are found in a chapter dedicated  
41 to that TSD unit. These unit-specific chapters contain references to Standard Conditions (Part I) and  
42 General Conditions (Part II), as well as additional requirements which are intended to ensure that each  
43 TSD unit is closed in an efficient and environmentally protective manner.

1 **Part VI, Unit-Specific Conditions for Units in Post-Closure**, contains those requirements which apply  
2 to those specific units in this part that have completed modified or landfill closure requirements, and now  
3 only need to meet Post-Closure Standards. As set forth in Section 5.3 of the Action Plan of the [HFFACO](#),  
4 certain TSD units will be permitted for post-closure care pursuant to the authorized State Dangerous  
5 Waste Program ([173-303 WAC](#)) and the Hazardous and Solid Waste Amendments. Requirements for  
6 each unit undergoing post-closure care are found in a chapter, within this part, dedicated to that unit.  
7 These unit specific chapters may contain references to Standard Conditions (Part I) and General  
8 Conditions (Part II), as well as the unit specific conditions, all of which are intended to ensure the unit is  
9 managed in an efficient, environmentally protective manner.  
10

1 **Unit Status Table**

| PERMIT REVISION    | REVISION DATE | UNITS INCORPORATED  |
|--------------------|---------------|---|
| Permit Revision 0  | 8/29/94       | 616 NDWSF, 305-B Storage Facility, 183-H SEB, 300 ASE, 2727-S, NRDWSF   |
| Permit Revision 1  | 4/28/95       | Simulated High-Level Waste Slurry, 218-E-9 Borrow Pit Demo Site, 200 W Area Ash Pit Demo Site, 2101-M Pond, 216-B-3 Expansion Ponds |
| Permit Revision 2  | 8/29/95       | Hanford Patrol Academy Demolition Site, 105-DR Large Sodium Fire Facility, 304 Concretion Facility                                  |
| Permit Revision 3  | 11/25/96      | 4843 Alkali Metal Storage Facility, 3718-F Alkali Metal Treatment & Storage Facility, 303-K Storage Facility, 300 APT               |
| Permit Revision 4  | 1/28/98       | PUREX Storage Tunnels, LERF & 200 Area ETF, 242-A Evaporator, 325 HWTUs   |
| Permit Revision 5  | 5/18/99       | 100 D Ponds, 1301-N & 1325-Liquid Waste Disposal Facility, 1324-N Surface Impoundment, 1324-NA Percolation Pond                     |
| Permit Revision 6  | 3/28/00       | Permit Condition II.Y, Corrective Action  |
| Permit Revision 7  | 2/27/01       | Waste Treatment & Immobilization Plant, 300 Area WATS   |
| Permit Revision 8  | 9/23/04       | No new units, modification updates  |
| Permit Revision 8A | 3/6/06        | Integrated Disposal Facility  |
| Permit Revision 8B | 1/2007        | 331-C Storage Unit, PFP Treatment Unit, 241-Z Treatment & Storage Tanks, 303-M Oxide Facility                                       |
| Permit Revision 8C | 8/2007        | 400 Area Waste Management Unit, 224-T TRUSAF  |

| UNIT   | Permit Revision |         | Comments/History                      |
|--|-----------------|---------|---------------------------------------|
|  | Incorporated    | Retired |                                       |
| <b>PART III, OPERATING UNITS</b>                   |                 |         |                                       |
| 616 Nonradioactive DWSF                            | Rev. 6          | Rev. 7  | Closed, 9/5/01                        |
| 242-A Evaporator                                   | Rev. 4          |         |                                       |
| 305-B Storage Facility                             | Rev. 0          |         | Closed, 7/2/07                        |
| 325 Hazardous Waste Treatment Units                | Rev. 4          |         | RLWT procedural closure, 9/04         |
| LERF & 200 Area ETF                                | Rev. 4          |         |                                       |
| PUREX Storage Tunnels                              | Rev. 3          |         |                                       |
| Waste Treatment and Immobilization Plant           | Rev. 7          |         | Permitted unit under construction     |
| Integrated Disposal Facility                       | Rev. 8A         |         |                                       |
| 331-C Storage Unit                                 | Rev. 8B         |         |                                       |
| 400 Area Waste Management Unit                     | Rev. 8C         |         |                                       |
| <b>PART V, UNDERGOING CLOSURE UNITS</b>            |                 |         |                                       |
| 100-D Ponds  | Rev. 5          | Rev. 6  | Closed, 8/9/99                        |
| 105 DR Large Sodium Fire Facility                  | Rev. 2          | Rev. 6  | Closed, 7/1/04                        |
| 1301-N Liquid Waste Disposal Facility              | Rev. 5          |         |                                       |
| 1324-N Surface Impoundment                         | Rev. 5          |         |                                       |
| 1324-NA Percolation Pond                           | Rev. 5          |         |                                       |
| 1325-N Liquid Waste Disposal Facility              | Rev. 5          |         |                                       |
| 200 West Area Ash Pit Demo Site                    | Rev. 1          | Rev. 6  | Closed, 11/28/95                      |
| 2101-M Pond  | Rev. 1          | Rev. 6  | Closed, 11/28/95                      |
| 216-B-3 Expansion Ponds                            | Rev. 1          | Rev. 6  | Closed, 7/31/95                       |
| 218-E-8 Borrow Demolition Site                     | Rev. 1          | Rev. 6  | Closed, 11/28/95                      |
| 2727-S Storage Facility                            | Rev. 0          | Rev. 6  | Closed, 7/31/95                       |
| 300 Area Solvent Evaporator                        | Rev. 0          | Rev. 6  | Closed, 7/31/95                       |
| 300 Area Waste Acid Treatment System               | Rev. 6          | Rev. 8B | Closed, 1/21/05                       |
| 303-K Storage Facility                             | Rev. 4          | Rev. 6  | Closed, 7/22/02                       |
| 304 Concretion Facility                            | Rev. 2          | Rev. 6  | Closed, 1/21/96                       |
| 311 Tanks  | Rev. 6          | Rev. 7  | Closed, 5/20/02. 300 Area WATS Part A |
| 3718-F Alkali Metal Treatment /Storage             | Rev. 3          | Rev. 6  | Closed, 8/4/98                        |
| 4843 Alkali Metal Storage Facility                 | Rev. 3          | Rev. 6  | Closed, 4/14/97                       |
| Hanford Patrol Academy Demo Site                   | Rev. 2          | Rev. 6  | Closed, 11/28/95                      |
| Simulated High Level Waste Slurry                  | Rev. 1          | Rev. 6  | Closed, 9/6/95                        |
| PFP Treatment Unit (HA-20MB)                       | Rev. 8B         | Rev. 8B | Closed, 2/8/05.                       |
| 241-Z Treatment and Storage Tanks                  | Rev. 8B         | Rev. 8B | Closed 2/22/07                        |
| 303-M Oxide Facility                               | Rev. 8B         | Rev. 8B | Closed; 6/15/06                       |
| 224-T Transuranic Waste Storage and Assay Facility | Rev. 8C         |         |                                       |

| <b>PART VI, POSTCLOSURE UNITS</b>  |       |     |                  |
|--|-------|-----|------------------|
| 183-H Solar Evaporation Basin  | Rev 4 |     |                  |
| 300 Area Process Trenches  | Rev 3 |     |                  |
| <b>PROCEDURALLY CLOSED</b>   |       |     |                  |
| 216-U-12 Crib  | N/A   | N/A | Closed, 7/19/07  |
| 221-T Test Facility  | N/A   | N/A | Closed, 2/22/99  |
| 2727-WA SRE Sodium Storage Bldg  | N/A   | N/A | Closed, 2/22/99  |
| 324 Pilot Plant  | N/A   | N/A | Closed, 6/9/97   |
| 332 Storage Facility   | N/A   | N/A | Closed, 4/21/97  |
| 437 Maintenance and Storage Facility   | N/A   | N/A | Closed, 9/11/03  |
| Biological Treatment Test Facilities   | N/A   | N/A | Closed, 12/10/96 |
| Physical/Chemical Treatment Test Facilities  | N/A   | N/A | Closed, 5/13/96  |
| Sodium Storage/Sodium Reaction   | N/A   | N/A | Closed, 9/17/03  |
| Thermal Treatment Test Facilities  | N/A   | N/A | Closed, 5/13/96  |
| <b>TO BE INCORPORATED</b>  |       |     |                  |
| 1706-KE Waste Treatment System   |       |     |                  |
| 207-A South Retention Basin  |       |     |                  |
| 216-A-10 Crib  |       |     |                  |
| 216-A-29 Ditch   |       |     |                  |
| 216-A-36B Crib   |       |     |                  |
| 216-A-37-1 Crib  |       |     |                  |
| 216-B-3 Main Pond  |       |     |                  |
| 216-B-63 Trench  |       |     |                  |
| 216-S-10 Pond & Ditch  |       |     |                  |
| 222-S Dangerous & Mixed Waste TSD Unit   |       |     |                  |
| 241-CX Tank System   |       |     |                  |
| 600 Area Purgewater Storage and Treatment Facility (Modu Tanks)                              |       |     |                  |
| Central Waste Complex  |       |     |                  |
| Contact Handled Transuranic Mixed Waste Packaging and Interim Storage Facility               |       |     |                  |
| DST System/204-AR Waste Unloading Station  |       |     |                  |
| Grout Treatment Facility   |       |     |                  |
| Hexone Storage & Treatment Facility  |       |     |                  |
| IHLW Interim Storage/Canister Storage Building   |       |     |                  |
| Low-Level Burial Grounds   |       |     |                  |
| Nonradioactive Dangerous Waste Landfill  |       |     |                  |
| Single-Shell Tank System   |       |     |                  |
| T Plant Complex  |       |     |                  |
| Waste Encapsulation and Storage Facility   |       |     |                  |
| Waste Receiving and Processing Facility  |       |     |                  |
| <b>TRANSITION UNDER HFFACO ACTION PLAN, SECTION 8 (Will not be incorporated into Permit)</b> |       |     |                  |
| B Plant Complex  |       |     |                  |
| PUREX Plant  |       |     |                  |

1  
2

1 **DEFINITIONS**

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2 Except with respect to those terms specifically defined below, all definitions contained in the [HFFACO](#),  
3 May 1989, as amended, and in [WAC 173-303-040](#) and other portions of [Chapter 173-303 WAC](#) are  
4 hereby incorporated, in their entirety, by reference into this Permit. For terms defined in both  
5 [Chapter 173-303 WAC](#) and the [HFFACO](#), the definitions contained in [Chapter 173-303 WAC](#) will  
6 control within this Permit. Nonetheless, this Permit is intended to be consistent with the [HFFACO](#).

7 Where terms are not defined in the regulations, the Permit, or the [HFFACO](#), a standard dictionary  
8 reference, or the generally accepted scientific or industrial meaning of the terms will define the meaning  
9 associated with such terms.

10 As used in this Permit, words in the masculine gender also include the feminine and neuter genders,  
11 words in the singular include the plural, and words in the plural include the singular.

12 The following definitions apply throughout this Permit:

- 13 a. The term "**Area of Concern**" means any area of the Facility where a release of dangerous waste or  
14 dangerous constituents has occurred, is occurring, is suspected to have occurred, or threatens to occur.
- 15 b. The term "**Contractor(s)**" means, unless specifically identified otherwise in this Permit, or  
16 Attachments, Fluor Hanford, Inc. (FH), Pacific Northwest National Laboratory (PNNL), Washington  
17 Closure Hanford LLC (WCH), CH2M HILL Hanford Group, Inc. (CH2MHILL), and Bechtel  
18 National, Inc. (BNI).
- 19 c. The term "**Critical Systems**" as applied to determining whether a Permit modification is required,  
20 means those specific portions of a TSD unit's structure, or equipment, whose failure could lead to the  
21 release of dangerous waste into the environment, and/or systems which include processes which treat,  
22 transfer, store, or dispose of regulated wastes. A list identifying the critical systems of a specific TSD  
23 unit may be developed and included in Part III, V, and/or VI of this Permit. In developing a critical  
24 system list, or in the absence of a critical system list, [WAC 173-303-830](#) Modifications will be  
25 considered.
- 26 d. The term "**Dangerous Constituent**" means any constituent identified in [WAC 173-303-9905](#) or  
27 [40 CFR Part 264 Appendix IX](#), any constituent which caused a waste to be listed or designated as  
28 dangerous under [Chapter 173-303 WAC](#), and any constituents within the meaning of hazardous  
29 substance at [RCW 70.105D.020\(7\)](#).
- 30 e. The term "**Dangerous Waste**" means those solid wastes designated under [Chapter 173-303 WAC](#) as  
31 dangerous or extremely hazardous waste. As used in the Permit, the phrase "dangerous waste" will  
32 refer to the full universe of wastes regulated by [Chapter 70.105 RCW](#) and [Chapter 173-303 WAC](#)  
33 (including dangerous waste, hazardous waste, extremely hazardous waste, mixed waste, and acutely  
34 hazardous waste).
- 35 f. The term "**Days**" means calendar days, unless specifically identified otherwise. Any submittal,  
36 notification, or recordkeeping requirement that would be due, under the Conditions of this Permit, on  
37 a Saturday, Sunday, or federal, or state holiday, will be due on the following business day, unless  
38 specifically stated otherwise in the Permit.
- 39 g. The term "**Director**" means the Director of the Washington State Department of Ecology, or a  
40 designated representative. The Program Manager of the Nuclear Waste Program (with the address as  
41 specified on page one [1] of this Permit) is a duly authorized and designated representative of the  
42 Director for purposes of this Permit.
- 43 h. The term "**Ecology**" means the Washington State Department of Ecology (with the address as  
44 specified on page one [1] of this Permit).

- 1 i. The term "**Facility**" means all contiguous land, structures, other appurtenances, and improvements on  
2 the land used for recycling, reusing, reclaiming, transferring, storing, treating, or disposing of  
3 dangerous waste. The legal and physical description of the Facility is set forth in Permit  
4 Attachment 2.
- 5 j. The term "**Facility**" for the purposes of corrective action under Permit Condition II.Y, means all  
6 contiguous property under the control of the Permittees and all property within the meaning of  
7 "facility" at [RCW 70.105D.020\(3\)](#) as set forth in Permit Attachment 2.
- 8 k. The term "**HFFACO**" means the Hanford Federal Facility Agreement and Consent Order, as  
9 amended (Commonly referred to as Tri-Party Agreement [TPA]).
- 10 l. The term "**Permittees**" means the United States Department of Energy (owner/operator), Fluor  
11 Hanford Inc. (Co-operator), Washington Closure Hanford LLC (Co-operator), Bechtel National, Inc.  
12 (Co-operator), CH2M HILL Hanford Group, Inc. (Co-operator), and Pacific Northwest National  
13 Laboratory (Co-operator).
- 14 m. The term "**Permittees**" for purposes of corrective action under Permit Condition II.Y means only the  
15 United States Department of Energy (owner/operator).
- 16 n. The term "**Raw Data**" means the initial value of analog or digital instrument output, and/or manually  
17 recorded values obtained from measurement tools or personal observation. These values are  
18 converted into reportable data (e.g., concentration, percent moisture) via automated procedures and/or  
19 manual calculations.
- 20 o. The term "**RCRA Permit**" means the Dangerous Waste Portion of the RCRA Permit for the  
21 Treatment, Storage, and Disposal of Dangerous Waste (Dangerous Waste Permit) issued by the  
22 Washington State Department of Ecology, pursuant to [Chapter 70.105 RCW](#) and [Chapter 173-303](#)  
23 [WAC](#), coupled with the HSWA Portion of the RCRA Permit for the Treatment, Storage, and Disposal  
24 of Hazardous Waste (HSWA Permit) issued by EPA, Region 10, pursuant to [42 U.S.C. 6901 et seq.](#)  
25 and [40 CFR Parts 124](#) and [270](#).
- 26 p. The term "**Reasonable Times**" means normal business hours; hours during which production,  
27 treatment, storage, construction, disposal, or discharge occurs, or times when Ecology suspects a  
28 violation requiring immediate inspection.
- 29 q. The term "**Release**" means any intentional or unintentional spilling, leaking, pouring, emitting,  
30 emptying, discharging, injecting, pumping, escaping, leaching, dumping, or disposing of dangerous  
31 constituents into the environment and includes the abandonment or discarding of barrels, containers,  
32 and other receptacles containing dangerous waste or dangerous constituents, and includes any releases  
33 within the meaning of release at [RCW 70.105D.020\(20\)](#).
- 34 r. The term "**Significant Discrepancy**" in regard to a manifest or shipping paper, means a discrepancy  
35 between the quantity or type of dangerous waste designated on the manifest, or shipping paper, and  
36 the quantity or type of dangerous waste a TSD unit actually receives. A significant discrepancy in  
37 quantity is a variation greater than ten (10) percent in weight for bulk quantities (e.g., tanker trucks,  
38 railroad tank cars, etc.), or any variation in piece count for nonbulk quantities (i.e., any missing  
39 container or package would be a significant discrepancy). A significant discrepancy in type is an  
40 obvious physical or chemical difference which can be discovered by inspection or waste analysis  
41 (e.g., waste solvent substituted for waste acid).
- 42 s. The term "**Solid Waste Management Unit (SWMU)**" means any discernible location at the Facility  
43 where solid wastes have been placed at any time, irrespective of whether the location was intended  
44 for the management of solid or dangerous waste, and includes any area at the Facility at which solid  
45 wastes have been routinely and systematically released (for example through spills), and includes  
46 dangerous waste treatment, storage, and disposal units.

- 1 t. The term "**Unit**" or "**TSD unit**", as used in Parts I through VI of this Permit, means the contiguous
- 2 area of land on or in which dangerous waste is placed, or the largest area in which there is a
- 3 significant likelihood of mixing dangerous waste constituents in the same area. A TSD unit, for
- 4 purposes of this Permit, is a subgroup of the Facility which has been identified in a Hanford Facility
- 5 Dangerous Waste Part A Form.

6

1 **ACRONYMS**

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|    |                        |   |
|----|------------------------|---|
| 2  | ALARA                  | As Low As Reasonably Achievable                                 |
| 3  | AMSF                   | Alkali Metal Storage Facility                                   |
| 4  | APDS                   | Ash Pit Demolition Site   |
| 5  | APP                    | Used to Denote Appendix Page Numbers                            |
| 6  | APT                    | Area Process Trenches   |
| 7  | ARAR                   | Applicable, Relevant, and Appropriate Requirements              |
| 8  | BNI                    | Bechtel National, Inc   |
| 9  | BPDS                   | Borrow Pit Demolition Site                                      |
| 10 | CD/RR                  | Chemical Disposal/Recycle Request                               |
| 11 | CERCLA                 | Comprehensive Environmental Response Compensation and Liability |
| 12 |                        | Act of 1980 (as Amended by the Superfund Reauthorization Act of |
| 13 |                        | 1986)   |
| 14 | CFR                    | Code of Federal Regulations                                     |
| 15 | CH2MHILL               | CH2M HILL Hanford Group, Inc.                                   |
| 16 | CIP                    | Construction Inspection Plan                                    |
| 17 | CLARC                  | Cleanup Levels and Risk Calculations                            |
| 18 | CLP                    | Contract Laboratory Program                                     |
| 19 | COC                    | Chemical Contaminants of Concern                                |
| 20 | CPP                    | CERCLA Past Practice  |
| 21 | USDOE-RL               | U.S. Department of Energy, Richland Operations Office           |
| 22 | USDOE-ORP              | U.S. Department of Energy, Office of River Protection           |
| 23 | DQO                    | Data Quality Objective  |
| 24 | DSC                    | Differential Scanning Colorimetry                               |
| 25 | EC                     | Emergency Coordinator   |
| 26 | Ecology                | Washington State Department of Ecology                          |
| 27 | EPA                    | U.S. Environmental Protection Agency                            |
| 28 | ERA                    | Expedited Response Action                                       |
| 29 | ETF                    | 200 Area Effluent Treatment Facility                            |
| 30 | <a href="#">HFFACO</a> | Hanford Federal Facility Agreement and Consent Order            |
| 31 | FH                     | Fluor Hanford, Inc.   |
| 32 | GW                     | Ground Water  |
| 33 | HPADS                  | Hanford Patrol Academy Demolition Site                          |
| 34 | HSWA                   | Hazardous and Solid Waste Amendments of 1984                    |
| 35 | HWMA                   | Hazardous Waste Management Act                                  |
| 36 | ID                     | Identification  |
| 37 | IRM                    | Interim Remedial Measure  |
| 38 | LDR                    | Land Disposal Restrictions                                      |
| 39 | LERF                   | Liquid Effluent Retention Facility                              |
| 40 | LSFF                   | 105-DR Large Sodium Fire Facility                               |
| 41 | MTCA                   | Model Toxics Control Act  |
| 42 | OSWER                  | Office of Solid Waste and Emergency Response                    |

|    |            |  |
|----|------------|--|
| 1  | PNNL       | Pacific Northwest National Laboratory                |
| 2  | QA         | Quality Assurance                                    |
| 3  | QAPP       | Quality Assurance Project Plan                       |
| 4  | QC         | Quality Control                                      |
| 5  | RCRA       | Resource Conservation and Recovery Act of 1976       |
| 6  | RCW        | Revised Code of Washington                           |
| 7  | ROD        | Record of Decision                                   |
| 8  | RPD        | Relative Percent Difference                          |
| 9  | RPP        | RCRA Past Practice                                   |
| 10 | SAP        | Sampling and Analysis Plan                           |
| 11 | SARA       | Superfund Amendments and Reauthorization Act of 1986 |
| 12 | SCD        | Security Control Devices                             |
| 13 | SHLWS      | Simulated High Level Waste Slurry                    |
| 14 | SOP        | Standard Operating Procedure                         |
| 15 | SWMU       | Solid Waste Management Unit                          |
| 16 | TCLP       | Toxicity Characteristic Leaching Procedure           |
| 17 | TSD        | Treatment, Storage, and/or Disposal                  |
| 18 | USDOE      | United States Department of Energy                   |
| 19 | U.S.C.     | United States Code                                   |
| 20 | WAC        | Washington Administrative Code                       |
| 21 | WAP        | Waste Analysis Plan                                  |
| 22 | WCH        | Washington Closure Hanford                           |
| 23 | WTP        | Waste Treatment and Immobilization Plant             |
| 24 | 183-H      | 183-H Solar Evaporation Basins                       |
| 25 | 242-A      | 242-A Evaporator                                     |
| 26 | 300 APT    | 300 Area Process Trenches                            |
| 27 | 300 ASE    | 300 Area Solar Evaporator                            |
| 28 | 303-K      | 303-K Storage Facility                               |
| 29 | 305-B      | 305-B Storage Facility                               |
| 30 | 325 HWTUs  | 325 Hazardous Waste Treatment Units                  |
| 31 | 616-NRDWSF | 616 Nonradioactive Dangerous Waste Storage Facility  |
| 32 |            |  |

**PART I STANDARD CONDITIONS**

**I.A EFFECT OF PERMIT**

I.A.1 The Permittees are authorized to treat, store, and dispose of dangerous waste in accordance with the Conditions of this Permit and in accordance with the applicable provisions of [Chapter 173-303 WAC](#) (including provisions of the Chapter as they have been applied in the [HFFACO](#)). Any treatment, storage, or disposal of dangerous waste by the Permittees at the Facility that is not authorized by this Permit, or by [WAC 173-303-400](#) (including provisions of this regulation as they have been applied in the [HFFACO](#)), for those TSD units not subject to this Permit, and for which a Permit is required by [Chapter 173-303 WAC](#), is prohibited.

TSD units operating or closing under interim status will maintain interim status until that TSD unit is incorporated into Part III, V, and/or VI of this Permit, or until interim status is terminated under [WAC 173-303-805\(8\)](#). Interim status units will be incorporated into this Permit through the Permit modification process.

I.A.2 The Conditions of this Permit will be applied to the Facility as defined by the Permit Applicability Matrix (Permit Attachment 3).

I.A.3 USDOE is responsible for activities which include, but are not limited to, the overall management and operation of the Facility.

FH is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.

PNNL is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.

WCH is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.

CH2MHILL is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.

BNI is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.

I.A.4 Coordination with the [HFFACO](#)

Each TSD unit will have an application for a final status Permit or closure/post-closure plan submitted to Ecology in accordance with the schedules identified in the [HFFACO](#) Milestone M-20-00 or in accordance with [WAC 173-303-830](#). After completion of the Permit application or closure/post-closure plan review, a final Permit decision will be made pursuant to [WAC 173-303-840](#). Specific Conditions for each TSD unit will be incorporated into this Permit in accordance with the Class 3 Permit modification procedure identified in Permit Condition I.C.3.

1 **I.B PERSONAL AND PROPERTY RIGHTS**

2 This Permit does not convey property rights of any sort, or any exclusive privilege; nor  
3 does it authorize any injury to persons or property, or any invasion of other private rights,  
4 or any violation of federal, state, or local laws or regulations.

5 **I.C PERMIT ACTIONS**

6 I.C.1 Modification, Revocation, Reissuance, or Termination

7 This Permit may be modified, revoked and reissued, or terminated by Ecology for cause  
8 per [WAC 173-303-810\(7\)](#) as specified in [WAC 173-303-830\(3\), \(4\), and \(5\)](#).

9 I.C.2 Filing of a Request

10 The filing of a request for a Permit modification, or revocation and reissuance, or  
11 termination, or a notification of planned changes, or anticipated noncompliance on the  
12 part of the Permittees, will not stay any Permit condition [[WAC 173-303-810\(7\)](#)]except  
13 as provided in [WAC 173-303-810\(2\)](#) under an emergency permit.

14 I.C.3 Modifications

15 Except as provided otherwise by specific language in this Permit, the Permit modification  
16 procedures of [WAC 173-303-830\(2\), \(3\), and \(4\)](#) will apply to modifications or changes  
17 in design or operation of the Facility, or any modification or change in dangerous waste  
18 management practices covered by this Permit. As an exception, the Permittees will  
19 provide notifications to Ecology required by [WAC 173-303-830\(4\)\(a\)\(i\)\(A\)](#) on a  
20 quarterly basis. Each quarterly notification will be submitted within ten (10) days of the  
21 end of the quarter, and provide the required information for all such modification s put  
22 into effect during that reporting period. Quarterly reporting periods will be based upon  
23 the state Fiscal Year. For notifications required by the Permittees to persons on the  
24 facility mailing list described in [WAC 173-303-830\(4\)\(a\)\(i\)\(B\)](#), [-830\(4\)\(b\)\(ii\)](#), [-](#)  
25 [830\(4\)\(c\)\(ii\)](#), and [-830\(4\)\(e\)\(ii\)\(C\)](#), use of appropriate [HFFACO Community Relations](#)  
26 [Plan](#) publications and/or list servers for public involvement satisfy the notification  
27 requirements.

28 **I.D SEVERABILITY**

29 I.D.1 Effect of Invalidation

30 The provisions of this Permit are severable, and if any provision of this Permit, or the  
31 application of any provision of this Permit to any circumstance is contested and/or held  
32 invalid, the application of such provision to other circumstances and the remainder of this  
33 Permit will not be affected thereby. Invalidation of any state statutory or regulatory  
34 provision which forms the basis for any Condition of this Permit does not affect the  
35 validity of any other state statutory or regulatory basis for said Condition.

36 I.D.2 Final Resolution

37 In the event that a Condition of this Permit is stayed for any reason, the Permittees will  
38 continue to comply with the related applicable and relevant interim status standards in  
39 [WAC 173-303-400](#) until final resolution of the stayed Condition, unless Ecology  
40 determines compliance with the related applicable and relevant interim status standards  
41 would be technologically incompatible with compliance with other Conditions of this  
42 Permit, which have not been stayed, or unless the [HFFACO](#) authorizes an alternative  
43 action, in which case the Permittees will comply with the [HFFACO](#).

1 **I.E DUTIES AND REQUIREMENTS**

2 I.E.1 Duty to Comply

3 The Permittees will comply with all Conditions of this Permit, except to the extent and  
4 for the duration such noncompliance is authorized by an emergency Permit issued under  
5 [WAC 173-303-804](#). Any Permit noncompliance other than noncompliance authorized by  
6 an emergency Permit constitutes a violation of [Chapter 70.105 RCW](#), as amended, and is  
7 grounds for enforcement action, Permit termination, modification or revocation and  
8 reissuance of the Permit, and/or denial of a Permit renewal application.

9 I.E.2 Compliance Not Constituting Defense

10 Compliance with the terms of this Permit does not constitute a defense to any order  
11 issued or any action brought under Section 3007, 3008, 3013, or 7003 of RCRA  
12 (42 U.S.C. Sections 6927, 6928, 6934, and 6973), Section 104, 106(a) or 107 of the  
13 Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
14 (CERCLA) [42 U.S.C. Sections 9604, 9606(a), and 9607], as amended by the Superfund  
15 Amendments and Reauthorization Act of 1986 (42 U.S.C. 9601 et seq.), or any other  
16 federal, state, or local law governing protection of public health, or the environment;  
17 provided, however, that compliance with this Permit during its term constitutes  
18 compliance at those areas subject to this Permit for the purpose of enforcement with  
19 [WAC 173-303-140](#), [WAC 173-303-180](#), [WAC 173-303-280 through -395](#),  
20 [WAC 173-303-600 through -680](#), [WAC 173-303-810](#), and [WAC 173-303-830](#), except for  
21 Permit modifications and those requirements not included in the Permit that become  
22 effective by statute, or that are promulgated under [40 CFR Part 268](#) restricting the  
23 placement of dangerous waste in or on the land.

24 I.E.3 Duty to Reapply

25 If the Permittees wish to continue an activity regulated by this Permit after the expiration  
26 date of this Permit, the Permittees must apply for, and obtain a new Permit, in accordance  
27 with [WAC 173-303-806\(6\)](#).

28 I.E.4 Permit Expiration and Continuation

29 This Permit, and all Conditions herein, will remain in effect beyond the Permit's  
30 expiration date until the effective date of the new Permit, if the Permittees have submitted  
31 a timely, complete application for renewal per [WAC 173-303-806](#) and, through no fault  
32 of the Permittees, Ecology has not made a final Permit determination as set forth in  
33 [WAC 173-303-840](#).

34 I.E.5 Need to Halt or Reduce Activity Not a Defense

35 It will not be a defense in the case of an enforcement action that it would have been  
36 necessary to halt or reduce the permitted activity in order to maintain compliance with the  
37 Conditions of this Permit.

38 I.E.6 Duty to Mitigate

39 In the event of noncompliance with the Permit, the Permittees will take all reasonable  
40 steps to minimize releases to the environment, and will carry out such measures as are  
41 reasonable to minimize or correct adverse impacts on human health and the environment.

- 1 I.E.7 Proper Operation and Maintenance
- 2 The Permittees will at all times properly operate and maintain all facilities and systems of  
3 treatment and control, which are installed or used by the Permittees, to achieve  
4 compliance with the Conditions of this Permit. Proper operation and maintenance  
5 includes effective performance, adequate funding, adequate operator staffing and  
6 training, and adequate laboratory and process controls, including appropriate quality  
7 assurance/quality control procedures. This provision requires the operation of backup or  
8 auxiliary facilities, or similar systems only when necessary to achieve compliance with  
9 the Conditions of the Permit.
- 10 I.E.8 Duty to Provide Information
- 11 The Permittees will furnish to Ecology, within a reasonable time, any relevant  
12 information which Ecology may request to determine whether cause exists for modifying,  
13 revoking and reissuing, or terminating this Permit, or to determine compliance with this  
14 Permit. The Permittees will also furnish to Ecology, upon request, copies of records  
15 required to be kept by this Permit.
- 16 I.E.9 Inspection and Entry
- 17 The Permittees will allow Ecology, or authorized representatives, upon the presentation  
18 of Ecology credentials, to:
- 19 I.E.9.a During operating hours, and at all other reasonable times, enter and inspect the Facility or  
20 any unit or area within the Facility, where regulated activities are located or conducted,  
21 or where records must be kept under the Conditions of this Permit;
- 22 I.E.9.b Have access to, and copy, at reasonable times, any records that must be kept under the  
23 Conditions of this Permit;
- 24 I.E.9.c Inspect at reasonable times any portion of the Facility, equipment (including monitoring  
25 and control equipment), practices, or operations regulated or required under this Permit;  
26 and,
- 27 I.E.9.d Sample or monitor, at reasonable times, for the purposes of assuring Permit compliance,  
28 or as otherwise authorized by state law, as amended, for substances or parameters at any  
29 location.
- 30 I.E.10 Monitoring and Records
- 31 I.E.10.a Samples and measurements taken by the Permittees for the purpose of monitoring  
32 required by this Permit will be representative of the monitored activity. Sampling  
33 methods will be in accordance with [WAC 173-303-110](#) or [40 CFR 261](#), unless otherwise  
34 specified in this Permit, or agreed to in writing by Ecology. Analytical methods will be  
35 as specified in the most recently published test procedure of the documents cited in [WAC](#)  
36 [173-303-110\(3\)\(a\) through \(h\)](#), unless otherwise specified in this Permit, or agreed to in  
37 writing by Ecology.
- 38 I.E.10.b The Permittees will retain at the TSD unit(s), or other locations approved by Ecology, as  
39 specified in Parts III, V, and/or VI of this Permit, records of monitoring information  
40 required for compliance with this Permit, including calibration and maintenance records  
41 and all original strip chart recordings for continuous monitoring instrumentation, copies  
42 of reports and records required by this Permit, and records of data used to complete the  
43 application for this Permit for a period of at least ten (10) years from the date of the  
44 sample, measurement, report, or application, unless otherwise required for certain  
45 information by other Conditions of this Permit. This information may be retained on  
46 electronic media.

- 1 I.E.10.c The Permittees will retain at the Facility, or other approved location, records of all  
2 monitoring and maintenance records, copies of all reports and records required by this  
3 Permit, and records of all data used to complete the application for this Permit, which are  
4 not associated with a particular TSD unit, for a period of at least ten (10) years from the  
5 date of certification of completion of post-closure care, or corrective action for the  
6 Facility, whichever is later. This information may be retained on electronic media.
- 7 I.E.10.d The record retention period may be extended by request of Ecology at any time by  
8 notification, in writing, to the Permittees, and is automatically extended during the course  
9 of any unresolved enforcement action regarding this Facility to ten (10) years beyond the  
10 conclusion of the enforcement action.
- 11 Records of monitoring information shall include:
- 12 I.E.10.d.i The date, exact place and time of sampling or measurements;
- 13 I.E.10.d.ii The individual who performed the sampling or measurements and their affiliation;
- 14 I.E.10.d.iii The dates the analyses were performed;
- 15 I.E.10.d.iv The individual(s) who performed the analyses and their affiliation;
- 16 I.E.10.d.v The analytical techniques or methods used; and,
- 17 I.E.10.d.vi The results of such analyses
- 18 I.E.11 Reporting Planned Changes
- 19 The Permittees will give notice to Ecology, as soon as possible, of any planned physical  
20 alterations, or additions to the Facility subject to this Permit. Such notice does not  
21 authorize any noncompliance with, or modification of, this Permit.
- 22 I.E.12 Certification of Construction or Modification
- 23 I.E.12.a The Permittees may not commence treatment, storage, or disposal of dangerous wastes in  
24 a new or modified portion of TSD units subject to this Permit until:
- 25 I.E.12.b The Permittees have submitted to Ecology, by certified mail, overnight express mail, or  
26 hand delivery, a letter signed by the Permittees, and a registered professional engineer,  
27 stating that the TSD unit has been constructed or modified in compliance with the  
28 Conditions of this Permit; and,
- 29 I.E.12.c Ecology has inspected the modified or newly constructed TSD unit, and finds that it is in  
30 compliance with the Conditions of this Permit; or
- 31 I.E.12.d Within fifteen (15) days of the date of receipt of the Permittees' letter, the Permittees  
32 have not received notice from Ecology of its intent to inspect, prior inspection is waived,  
33 and the Permittees may commence treatment, storage, and disposal of dangerous waste.
- 34 I.E.13 Anticipated Noncompliance
- 35 The Permittees will give at least thirty (30) days advance notice to Ecology of any  
36 planned changes in the Facility subject to this Permit, or planned activity which might  
37 result in noncompliance with Permit requirements.
- 38 If thirty (30) days advance notice is not possible, then the Permittees will give notice  
39 immediately after the Permittees become aware of the anticipated noncompliance. Such  
40 notice does not authorize any noncompliance with, or modification of, this Permit.

- 1 I.E.14 Transfer of Permits
- 2 I.E.14.a This Permit may be transferred to a new owner/operator only if it is modified, or revoked  
3 and reissued, pursuant to [WAC 173-303-830\(3\)\(b\)](#). Unit-specific portion may be  
4 transferred to a new Co-operator as a Class <sup>1</sup>I modification with prior approval of the  
5 Department's director.
- 6 I.E.14.b Before transferring ownership or operation of the Facility during its operating life, the  
7 owner/operator will notify the new owner/operator in writing, of the requirements of  
8 [WAC 173-303-290\(2\)](#), [-600](#) and [-806](#), and this Permit.
- 9 I.E.15 Immediate Reporting
- 10 I.E.15.a The Permittees will verbally report to Ecology any release of dangerous waste or  
11 hazardous substances, or any noncompliance with the Permit which may endanger human  
12 health or the environment. Any such information will be reported immediately after the  
13 Permittees become aware of the circumstances.
- 14 I.E.15.b The immediate verbal report will contain all the information needed to determine the  
15 nature and extent of any threat to human health and the environment, including the  
16 following:
- 17 I.E.15.b.i Name, address, and telephone number of the Permittee responsible for the release or  
18 noncompliant activity;
- 19 I.E.15.b.ii Name, location, and telephone number of the unit at which the release occurred;
- 20 I.E.15.b.iii Date, time, and type of incident;
- 21 I.E.15.b.iv Name and quantity of material(s) involved;
- 22 I.E.15.b.v The extent of injuries, if any;
- 23 I.E.15.b.vi An assessment of actual or potential hazard to the environment and human health, where  
24 this is applicable;
- 25 I.E.15.b.vii Estimated quantity of released material that resulted from the incident; and,
- 26 I.E.15.b.viii Actions which have been undertaken to mitigate the occurrence.
- 27 I.E.15.c The Permittees will report, in accordance with Permit Conditions I.E.15.a and I.E.15.b,  
28 any information concerning the release, or unpermitted discharge, of any dangerous  
29 waste or hazardous substances that may cause an endangerment to drinking water  
30 supplies, or ground or surface waters, or of a release, or discharge of dangerous waste, or  
31 hazardous substances, or of a fire or explosion at the Facility, which may threaten human  
32 health or the environment. The description of the occurrence and its cause will include  
33 all information necessary to fully evaluate the situation and to develop an appropriate  
34 course of action.
- 35 I.E.15.d For any release or noncompliance not required to be reported to Ecology immediately, a  
36 brief account must be entered within two (2) working days, into the TSD Operating  
37 Record, for a TSD unit, or into the Facility Operating Record, inspection log, or separate  
38 spill log, for non-TSD units. This account must include: the time and date of the release,  
39 the location and cause of the release, the type and quantity of material released, and a  
40 brief description of any response actions taken or planned.
- 41 I.E.15.e All releases, regardless of location of release, or quantity of release, will be controlled  
42 and mitigated, if necessary, as required by [WAC 173-303-145\(3\)](#).

- 1 I.E.16 Written Reporting  
2 Within fifteen (15) days after the time the Permittees become aware of the circumstances  
3 of any noncompliance with this Permit, which may endanger human health or the  
4 environment, the Permittees will provide to Ecology a written report. The written report  
5 will contain a description of the noncompliance and its cause (including the information  
6 provided in the verbal notification); the period of noncompliance including exact dates  
7 and times; the anticipated time noncompliance is expected to continue, if the  
8 noncompliance has not been corrected; corrective measures being undertaken to mitigate  
9 the situation, and steps taken or planned to reduce, eliminate, and prevent recurrence of  
10 the noncompliance.
- 11 I.E.17 Manifest Discrepancy Report
- 12 I.E.17.a For dangerous waste received from outside the Facility, whenever a significant  
13 discrepancy in a manifest is discovered, the Permittees will attempt to reconcile the  
14 discrepancy. If not reconciled within fifteen (15) days of discovery, the Permittees will  
15 submit a letter report in accordance with [WAC 173-303-370\(4\)](#), including a copy of the  
16 applicable manifest or shipping paper, to Ecology.
- 17 I.E.17.b For dangerous waste which is being transported within the Facility (i.e., shipment of on-  
18 site generated dangerous waste), whenever a significant discrepancy in the shipping  
19 papers (see Permit Condition II.Q.1) is discovered, the Permittees will attempt to  
20 reconcile the discrepancy. If not reconciled within fifteen (15) days of discovery, the  
21 Permittees will note the discrepancy in the receiving unit's Operating Record.
- 22 I.E.18 Unmanifested Waste Report
- 23 The Permittees will follow the provisions of [WAC 173-303-370](#) for the receipt of any  
24 dangerous waste shipment from off-site. The Permittees will also submit a report in  
25 accordance with [WAC 173-303-390\(1\)](#) to Ecology within fifteen (15) days of receipt of  
26 any unmanifested dangerous waste shipment received from off-site sources.
- 27 I.E.19 Other Noncompliance
- 28 The Permittees will report to Ecology all instances of noncompliance, not otherwise  
29 required to be reported elsewhere in this Permit, at the time the Annual Dangerous Waste  
30 Report is submitted.
- 31 I.E.20 Other Information
- 32 Whenever the Permittees become aware that they have failed to submit any relevant facts  
33 in a Permit application, closure plan, or post-closure plan, or submitted incorrect  
34 information in a Permit application, closure plan, or post-closure plan, or in any report to  
35 Ecology, the Permittees will promptly submit such facts or corrected information.
- 36 I.E.21 Reports, Notifications, and Submissions
- 37 All written reports, notifications or other submissions, which are required by this Permit  
38 to be sent, or given to the Director or Ecology, should be sent certified mail, overnight  
39 express mail, or hand delivered, to the current address and telephone number shown  
40 below. This address and telephone number may be subject to change.

1 Washington State Department of Ecology  
2 Nuclear Waste Program  
3 3100 Port of Benton Blvd  
4 Richland, Washington 99354  
5 Telephone: (509) 372-7950

6 Telephonic and oral reports/notifications also need to be provided to Ecology's Richland  
7 Office.

8 Ecology will give the Permittees written notice of a change in address or telephone  
9 number. It is the responsibility of the Permittees to ensure any required reports,  
10 notifications, or other submissions are transmitted to the addressee listed in this  
11 Condition. However, the Permittees will not be responsible for ensuring verbal and  
12 written correspondence reaches a new address or telephone number until after their  
13 receipt of Ecology's written notification.

14 I.E.22 Annual Report

15 The Permittees will comply with the annual reporting requirements of  
16 [WAC 173-303-390\(2\)\(a\) through \(e\), and \(g\)](#).

17 **I.F SIGNATORY REQUIREMENT**

18 All applications, reports, or information submitted to Ecology, which require  
19 certification, will be signed and certified in accordance with [WAC 173-303-810\(12\) and](#)  
20 [\(13\)](#). All other reports required by this Permit and other information requested by  
21 Ecology will be signed in accordance with [WAC 173-303-810\(12\)](#).

22 **I.G CONFIDENTIAL INFORMATION**

23 The Permittees may declare as confidential any information required to be submitted by  
24 this Permit, at the time of submission, in accordance with [WAC 173-303-810\(15\)](#).

25 **I.H DOCUMENTS TO BE MAINTAINED AT FACILITY SITE**

26 The Permittees will maintain at the Facility, or some other location approved by Ecology,  
27 the following documents and amendments, revisions, and modifications to these  
28 documents: (1) This Permit and all Attachments; and (2) The Hanford Facility Operating  
29 Record.

30 All dangerous waste Part B permit applications, post closure permit applications, and  
31 closure plan applications are maintained in the Administrative Record located at  
32 2440 Stevens, Room 1101, Richland, WA.

33 Other approved locations: (1) 700 Area, (2) Locations within the City of Richland under  
34 control of one or more of the Permittees, (3) Administrative Record locations within the  
35 Stevens Center complex, (4) Consolidated Information Center at Washington State  
36 University, Tri-Cities. (5) Archived records at the National Archives and Records  
37 Administration (NARA), Pacific Alaska Region, 6125 Sand Point Way NE, Seattle,  
38 Washington, 98115-7999.

39 These documents will be maintained for ten (10) years after post-closure care or  
40 corrective action for the Facility, whichever is later, has been completed and certified as  
41 complete.

1 **PART II GENERAL FACILITY CONDITIONS**

2 **II.A FACILITY CONTINGENCY PLAN**

3 II.A.1 The Permittees will immediately carry out applicable provisions of the *Hanford*  
4 *Emergency Management Plan* as provided in Permit Attachment 4, pursuant to  
5 [WAC 173-303-360\(2\)](#), whenever there is an incident meeting the criteria of Permit  
6 Attachment 4, Section 4.2. Enforceable portions of Permit Attachment 4, *Hanford*  
7 *Emergency Management Plan* (DOE/RL-94-02) are identified in Permit Attachment 4,  
8 Appendix A.

9 II.A.2 The Permittees will comply with the requirements of [WAC 173-303-350\(4\)](#), as provided  
10 in the *Hanford Emergency Management Plan* (Permit Attachment 4). The *Hanford*  
11 *Emergency Management Plan* provides reference to the need for unit-specific  
12 contingency documentation. Unit-specific contingency documentation for Part III TSD  
13 units is included in Part III of this Permit. Unit-specific contingency documentation for  
14 Part V and VI TSD units required by this Permit condition is maintained in the Hanford  
15 Facility Operating Record, Unit-Specific files.

16 II.A.3 The *Permittees* will review and amend, if necessary, the applicable portions of the  
17 *Hanford Emergency Management Plan*, as provided in Permit Attachment 4, pursuant to  
18 [WAC 173-303-350\(5\)](#), and in accordance with the provisions of [WAC 173-303-830\(4\)](#).  
19 The Permittees will be able to demonstrate how Amendments to the applicable portions  
20 are controlled. The plan will be amended within a period of time agreed upon by  
21 Ecology.

22 II.A.4 The Permittees will comply with the requirements of [WAC 173-303-350\(3\)](#) and [-360\(1\)](#)  
23 concerning the emergency coordinator, except the names and home telephone numbers  
24 will be on file with the single point-of-contact, phone number (509) 373-3800 or  
25 375-2400 (for PNNL units) as described in the *Hanford Emergency Management Plan*.

26 **II.B PREPAREDNESS AND PREVENTION**

27 II.B.1 The Permittees will equip the Facility with the equipment specified in  
28 [WAC 173-303-340\(1\)](#) as specified in the *Hanford Emergency Management Plan* (Permit  
29 Attachment 4). Unit-specific preparedness and prevention provisions are included in  
30 Parts III, V, and/or VI of this Permit.

31 II.B.2 The Permittees will test and maintain the equipment specified in Permit Condition II.B.1  
32 as necessary to assure proper operation in the event of emergency.

33 II.B.3 The Permittees will maintain access to communications or alarms pursuant to  
34 [WAC 173-303-340\(2\)](#), as provided in the *Hanford Emergency Management Plan* (Permit  
35 Attachment 4) and unit-specific contingency plans.

36 II.B.4 The Permittees will comply with [WAC 173-303-340\(4\)](#) and [WAC 173-303-355\(1\)](#)  
37 pertaining to arrangements with local authorities.

38 II.B.5 Based on the arrangements with local authorities required by [WAC 173-303-340\(4\)](#)  
39 documented in Permit Attachment 4, Table 3-1, the Permittees will maintain the  
40 Memorandums of Understanding to comply with [WAC 173-303-350\(4\)\(b\)](#). The Hanford  
41 Facility Memorandums of Understanding with local authorities provides emergency  
42 planning and coordination equivalent to submittal of the contingency plan to local  
43 authorities

1 **II.C PERSONNEL TRAINING**

2 II.C.1 The Permittees will conduct personnel training as required by [WAC 173-303-330](#). The  
3 Permittees will maintain documents in accordance with [WAC 173-303-330\(2\) and \(3\)](#).  
4 Training records may be maintained in the Hanford Facility Operating Record, or on  
5 electronic data storage.

6 II.C.2 All Hanford Facility personnel will receive general Facility training within six (6) months  
7 of hire. This training will provide personnel with orientation of dangerous waste  
8 management activities being conducted at the Hanford Facility. This training will  
9 include:

10 II.C.2.a Description of emergency signals and appropriate personnel response;

11 II.C.2.b Identification of contacts for information regarding dangerous waste management  
12 activities;

13 II.C.2.c Introduction to waste minimization concepts;

14 II.C.2.d Identification of contact(s) for emergencies involving dangerous waste; and

15 II.C.2.e Familiarization with the applicable portions of the *Hanford Emergency Management*  
16 *Plan*.

17 II.C.3 Description of training plans for personnel assigned to TSD units subject to this Permit  
18 are delineated in the unit-specific Chapters in Parts III, V, and/or VI of this Permit.

19 II.C.4 The Permittees will provide the necessary training to non-Facility personnel (i.e., visitors,  
20 sub-contractors), as appropriate, for the locations of such personnel, and the activities that  
21 will be undertaken. At a minimum, this training will describe dangerous waste  
22 management hazards at the Facility.

23 **II.D WASTE ANALYSIS**

24 II.D.1 All waste analyses required by this Permit will be conducted in accordance with a written  
25 waste analysis plan (WAP), or sampling and analysis plan (SAP). Operating TSD units  
26 will have a WAP, which will be approved through incorporation of the TSD unit into Part  
27 III of this Permit. Closing TSD units, and units in post-closure, should have a SAP and,  
28 if necessary, a WAP, which will be approved through incorporation of the TSD unit into  
29 Part V and/or VI of this Permit.

30 II.D.2 Until a WAP is implemented in accordance with Permit Condition II.D.1., any unit(s)  
31 identified in Parts III, V, and/or VI of this Permit, without a unit-specific WAP approved  
32 by Ecology, will not treat, store, or dispose of dangerous waste, unless specified  
33 otherwise by Ecology in writing.

34 II.D.3 Each TSD unit WAP will include:

35 II.D.3.a The parameters for which each dangerous waste will be analyzed, and the rationale for  
36 selecting these parameters; (i.e., how analysis for these parameters will provide sufficient  
37 information on the waste properties to comply with [WAC 173-303-300\(1\), \(2\), \(3\), and](#)  
38 [\(4\)](#);

39 II.D.3.b The methods of obtaining or testing for these parameters;

40 II.D.3.c The methods for obtaining representative samples of wastes for analysis (representative  
41 sampling methods are discussed in [WAC 173-303-110\(2\)](#);

- 1 II.D.3.d The frequency with which analysis of a waste will be reviewed, or repeated, to ensure  
2 that the analysis is accurate and current;
- 3 II.D.3.e The waste analyses which generators have agreed to supply;
- 4 II.D.3.f Where applicable, the methods for meeting the additional waste analysis requirements for  
5 specific waste management methods, as specified in [WAC 173-303-140\(4\)\(b\)](#),  
6 [173-303-395\(1\)](#), [173-303-630 through 173-303-670](#), and [40 CFR 264.1034](#), [264.1063](#),  
7 [284\(a\)](#), and [268.7](#), for final status facilities;
- 8 II.D.3.f.i For off-site facilities, the procedures for confirming that each dangerous waste received  
9 matches the identity of the waste specified on the accompanying manifest, or shipping  
10 paper. This includes at least:
- 11 II.D.3.f.i.1 The procedure for identifying each waste movement at the Facility; and,
- 12 II.D.3.f.i.2 The method for obtaining a representative sample of the waste to be identified, if the  
13 identification method includes sampling.
- 14 II.D.3.f.ii For surface impoundments exempted from Land Disposal Restrictions (LDR) under  
15 [40 CFR 268.4\(a\)](#), incorporated by reference in [WAC 173-303-140\(2\)](#), the procedures and  
16 schedules for:
- 17 1. The sampling of impoundment contents;  
18 2. The analysis of test data; and  
19 3. The annual removal of residues that are not delisted under [40 CFR 260.22](#), or which  
20 exhibit a characteristic of hazardous waste and either:  
21 a. Do not meet applicable treatment standards of [40 CFR Part 268, Subpart D](#); or  
22 b. Where no treatment standards have been established:  
23 i) Such residues are prohibited from land disposal under [40 CFR 268.32](#), or  
24 [RCRA Section 3004\(d\)](#); or  
25 ii) Such residues are prohibited from land disposal under [40 CFR 268.33\(f\)](#); and
- 26 II.D.4 Should waste analysis be required by this Permit at a location on the Facility, other than  
27 at a TSD unit, a SAP will be maintained by the Permittees, and made available upon  
28 request from Ecology. Any SAP required by this Permit, not associated with a particular  
29 TSD unit, will include the elements of Permit Conditions II.D.3.a.

30 **II.E QUALITY ASSURANCE/QUALITY CONTROL**

- 31 II.E.1 All WAPs and SAPs required by this Permit will include a quality assurance/quality  
32 control (QA/QC) plan, or equivalent, to document all monitoring procedures to ensure  
33 that all information, data, and resulting decisions are technically sound, statistically valid,  
34 and properly documented in accordance with [HFFACO Action Plan §6.5](#), Quality  
35 Assurance, and reported/made available in accordance with [HFFACO Action Plan §9.6](#),  
36 Data Access and Delivery Requirements.
- 37 II.E.2 The level of QA/QC for the collection, preservation, transportation, and analysis of each  
38 sample required for implementation of this Permit may be based upon an Ecology-  
39 approved DQO for the sample. These DQOs will be approved by Ecology in writing or  
40 through incorporation of unit plans and Permits into Parts III, V, and/or VI of this Permit.

1 **II.F GROUND WATER AND VADOSE ZONE MONITORING**

2 The Permittees will comply with the ground water monitoring requirements of  
3 [WAC 173-303-645](#). This Condition will apply only to those wells the Permittees use for  
4 the ground water monitoring programs applicable to the TSD units incorporated into  
5 Parts III, V, and/or VI of this Permit. Where releases from TSD units subject to this  
6 Permit have been documented or confirmed by investigation, or where vadose zone  
7 monitoring is proposed for integration with ground water monitoring, the Permittees will  
8 evaluate the applicability of vadose zone monitoring. The Permittees will consult with  
9 Ecology regarding the implementation of these requirements. If agreed to by Ecology,  
10 integration of ground water and vadose zone monitoring, for reasons other than this  
11 Permit, may be accommodated by this Permit. Results from other investigation activities  
12 will be used whenever possible to supplement and/or replace sampling required by this  
13 Permit.

14 **II.F.1 Purgewater Management**

15 Purgewater will be handled in accordance with the requirements set forth in Permit  
16 Attachment 5, *Purgewater Management Plan*.

17 **II.F.2 Well Remediation and Abandonment**

18 **II.F.2.a** The Permittees will inspect the integrity of active resource protection wells as defined by  
19 [WAC 173-160-030](#), subject to this Permit, at least once every five (5) years. These  
20 inspections will be recorded in the Operating Record. The Permittees will prepare and  
21 maintain a plan and schedule by January 26, 1995, specifying the schedule and technical  
22 standards for this program. The Permittees will provide a copy of this plan upon the  
23 request of Ecology.

24 **II.F.2.b** The Permittees will evaluate resource protection wells subject to this Permit according to  
25 Sections 4.0 and 5.0 of the *Hanford Well Maintenance Inspection Plan* (Permit  
26 Attachment 6) and the *Policy on Remediation of Existing Wells and Acceptance Criteria*  
27 *for RCRA and CERCLA*, June 1990 (Permit Attachment 7), to determine if a well has a  
28 potential use as a qualified well. The Permittees will abandon or remediate unusable  
29 wells according to the requirements of [Chapter 18.104 RCW](#), [Chapter 173-160 WAC](#),  
30 and [Chapter 173-162 WAC](#) to ensure that the integrity of wells subject to this Permit is  
31 maintained. The time for this remediation will be specified in Parts III, V, and/or VI of  
32 this Permit.

33 **II.F.2.c** Ecology will receive notice in writing at least seventy-two (72) hours before the  
34 Permittees remediate (excluding maintenance activities), or abandon any well subject to  
35 this Permit.

36 **II.F.2.d** For wells subject to this Permit, the Permittees will achieve full compliance with  
37 [Chapter 173-160 WAC](#) and [Chapter 18.104 RCW](#) consistent with a rolling five (5) year  
38 schedule agreed to by Ecology and the Permittees. This process will be completed by the  
39 year 2012.

40 **II.F.3 Well Construction**

41 All wells constructed pursuant to this Permit will be constructed in compliance with  
42 [Chapter 173-160 WAC](#).

43 **II.G SITING CRITERIA**

44 The Permittees will comply with the applicable notice of intent and siting criteria of  
45 [WAC 173-303-281](#) and [WAC 173-303-282](#), respectively.

1 **II.H RECORDKEEPING AND REPORTING**

2 The provisions of [WAC 173-303-620](#) are not applicable to the Hanford Facility because  
3 the USDOE is both owner and operator of the Hanford Facility.  
4 [WAC 173-303-620\(1\)\(c\)](#).

5 **II.I FACILITY OPERATING RECORD**

6 II.I.1 The Permittees will maintain a written Facility Operating Record until ten (10) years after  
7 post-closure, or corrective action is complete and certified for the Facility, whichever is  
8 later. Except as specifically provided otherwise in this Permit, the Permittees will also  
9 record all information referenced in this Permit in the Facility Operating Record within  
10 seven (7) working days after the information becomes available. A TSD unit-specific  
11 Operating Record will be maintained for each TSD unit at a location identified in  
12 Parts III, V, and VI of this Permit. This information may be maintained on electronic  
13 media. Each TSD unit-specific Operating Record will be included by reference in the  
14 Facility Operating Record. Information required in each TSD unit-specific Operating  
15 Record is identified on a unit-by-unit basis in Part III, V, or VI of this Permit. The  
16 Facility Operating Record will include, but not be limited to, the following information.

17 II.I.1.a A description of the system(s) currently utilized to identify and map solid waste  
18 management units and their locations. The description of the system(s) is required to  
19 include an identification of on-site access to the system's data, and an on-site contact  
20 name and telephone number. In addition to, or as part of, this system(s), the Permittees  
21 will also maintain a list identifying active ninety (90)-day waste storage areas, and  
22 dangerous waste satellite accumulation areas and their locations. The list will identify the  
23 location, the predominant waste types managed at the area, and a date identifying when  
24 the list was compiled. Maps will be provided by the Permittees upon request by Ecology;

25 II.I.1.b Records and results of waste analyses required by [WAC 173-303-300](#);

26 II.I.1.c An identification of the system(s) currently utilized to generate Occurrence Reports. The  
27 identification of the system(s) is required to include a description, an identification of an  
28 on-site location of hard-copy Occurrence Reports, an identification of on-site access to  
29 the system's data, and an on-site contact name and telephone number;

30 II.I.1.d Copies of all unmanifested waste reports;

31 II.I.1.e The *Hanford Emergency Management Plan*, as well as summary reports, and details of  
32 all incidents that require implementing the contingency plan, as specified in  
33 [WAC 173-303-360\(2\)\(k\)](#);

34 II.I.1.f An identification of the system(s) currently utilized and being developed to record  
35 personnel training records and to develop training plans. The identification of the  
36 system(s) is required to include a description, an identification of on-site access to the  
37 system's data, and an on-site contact name and telephone number;

38 II.I.1.g Preparedness and prevention arrangements made pursuant to [WAC 173-303-340\(4\)](#) and  
39 documentation of refusal by state or local authorities that have declined to enter into  
40 agreements in accordance with [WAC 173-303-340\(5\)](#);

41 II.I.1.h Reserved Condition;

42 II.I.1.i Reserved Condition;

43 II.I.1.j Documentation (e.g., waste profile sheets) of all dangerous waste transported to or from  
44 any TSD unit subject to this Permit. This documentation will be maintained in the  
45 receiving unit's Operating Record from the time the waste is received;

- 1 II.I.1.k An identification of the system(s) currently utilized to cross-reference waste locations to  
2 specific manifest document numbers. The identification of the system(s) is required to  
3 include a thorough description, an identification of an on-site location of a hard-copy data  
4 report, an identification of on-site access to the system's data, and an on-site contact  
5 name and telephone number;
- 6 II.I.1.l Reserved Condition;
- 7 II.I.1.m Annual Reports required by this Permit;
- 8 II.I.1.n An identification of all systems currently utilized to record monitoring information,  
9 including all calibration and maintenance records, and all original strip chart recordings  
10 for continuous monitoring instrumentation. The identification of systems will include a  
11 description of the systems. The descriptions will include a confirmation that the criteria  
12 of Permit Condition I.E.10 is provided by the utilization of the system. The identification  
13 of the systems will also include an identification of on-site access to the system's data, an  
14 on-site contact name and telephone number;
- 15 II.I.1.o Reserved Condition;
- 16 II.I.1.p Summaries of all records of ground water corrective action required by  
17 [WAC 173-303-645](#);
- 18 II.I.1.q An identification of the system(s) currently being utilized and being developed to  
19 evaluate compliance with the Conditions of this Permit and with [Chapter 173-303 WAC](#).  
20 The identification of the system(s) will include a description of the system(s), an  
21 identification of on-site access to the system's data, and an on-site contact name and  
22 telephone number. The description of the system(s) will also include a definition of  
23 which portion(s) of the system(s) is accessible to Ecology;
- 24 II.I.1.r All deed notifications required by this Permit (to be included by reference);
- 25 II.I.1.s All inspection reports required by this Permit; and
- 26 II.I.1.t All other reports as required by this Permit, including design change documentation and  
27 nonconformance documentation.
- 28 **II.J FACILITY CLOSURE**
- 29 II.J.1 Final closure of the Hanford Facility will be achieved when closure activities for all TSD  
30 units have been completed, as specified in Parts III, IV, V, or VI of this Permit.  
31 Completion of these activities will be documented using either certifications of closure,  
32 in accordance with [WAC 173-303-610\(6\)](#), or certifications of completion of post-closure  
33 care, in accordance with [WAC 173-303-610\(11\)](#).
- 34 II.J.2 The Permittees will close all TSD units as specified in Parts III, V, and/or VI of this  
35 Permit.
- 36 II.J.3 The Permittees will submit a written notification of, or request for, a Permit modification  
37 in accordance with the provisions of [WAC 173-303-610\(3\)\(b\)](#), whenever there is a  
38 change in operating plans, facility design, or the approved closure plan. The written  
39 notification or request must include a copy of the amended closure plan for review, or  
40 approval, by Ecology.
- 41 II.J.4 The Permittees will close the Facility in a manner that:
- 42 II.J.4.a Minimizes the need for further maintenance;
- 43 II.J.4.b Controls, minimizes or eliminates, to the extent necessary to protect human health and the  
44 environment, post-closure escape of dangerous waste, dangerous constituents, leachate,

1 contaminated run-off, or dangerous waste decomposition products, to the ground, surface  
2 water, ground water, or the atmosphere; and

3 II.J.4.c Returns the land to the appearance and use of surrounding land areas to the degree  
4 possible, given the nature of the previous dangerous waste activity.

5 II.J.4.d Meets the requirements of [WAC 173-303-610\(2\)\(b\)](#).

6 **II.K SOIL/GROUND WATER CLOSURE PERFORMANCE STANDARDS**

7 II.K.1 For purposes of Permit Condition II.K, the term "clean closure" shall mean the status of a  
8 TSD unit at the Facility which has been closed to the cleanup levels prescribed by  
9 [WAC 173-303-610\(2\)\(b\)](#), provided certification of such closure has been accepted by  
10 Ecology.

11 II.K.2 The Permittees may close a TSD unit to background levels as defined in Ecology  
12 approved Hanford Site Background Documents, if background concentrations exceed the  
13 levels prescribed by Permit Condition II.K.1. Closure to these levels, provided the  
14 Permittees comply with all other closure requirements for a TSD unit as identified in  
15 Parts III, V, and/or VI of this Permit, shall be deemed as "clean closure".

16 II.K.3 Except for those TSD units identified in Permit Conditions II.K.1, II.K.2, or II.K.4, the  
17 Permittees may close a TSD unit to a cleanup level specified under Method C of  
18 [Chapter 173-340 WAC](#). Closure of a TSD unit to these levels, provided the Permittees  
19 comply with all other closure requirements for the TSD unit as specified in Parts III, V,  
20 and/or VI of the Permit, and provided the Permittees comply with Permit  
21 Conditions II.K.3.a through II.K.3.c, shall be deemed as a "modified closure".

22 II.K.3.a For "modified closures", the Permittees shall provide institutional controls in accordance  
23 with [WAC 173-340-440](#) which restricts access to the TSD unit for a minimum of  
24 five (5) years following completion of closure. The specific details and duration of  
25 institutional controls shall be specified in Parts III, V, and/or VI of this Permit for a  
26 particular TSD unit.

27 II.K.3.b For "modified closures", the Permittees shall provide periodic assessments of the TSD  
28 unit to determine the effectiveness of the closure. The specific details of the periodic  
29 assessments shall be specified in Parts III, V, and/or VI of this Permit. The periodic  
30 assessments shall include, as a minimum, a compliance monitoring plan in accordance  
31 with [WAC 173-340-410](#) that will address the assessment requirements on a unit-by-unit  
32 basis. At least one (1) assessment activity shall take place after a period of five (5) years  
33 from the completion of closure, which will demonstrate whether the soils and ground  
34 water have been maintained at or below the allowed concentrations as specified in  
35 Parts III, V, or VI of this Permit. Should the required assessment activities identify  
36 contamination above the allowable limits as specified in Parts III, V, and/or VI, the TSD  
37 unit must be further remediated, or the requirements of II.K.4 must be followed. Should  
38 the required assessment activities demonstrate that contamination has diminished, or  
39 remained the same, the Permittees may request that Ecology reduce, or eliminate the  
40 assessment activities and/or institutional controls.

41 II.K.3.c For "modified closures", the Permittees shall specify the particular activities required by  
42 this Condition in a Post-Closure Permit application.

43 II.K.4 Any TSD unit for which Permit Conditions II.K.1, II.K.2, or II.K.3, are not chosen as the  
44 closure option, closing the TSD unit as a landfill may be selected. Closure and post-  
45 closure of the TSD unit as a landfill, must follow the procedures and requirements  
46 specified in [WAC 173-303-610](#).

- 1 II.K.5 The cleanup option selected shall be specified in Parts III, V, and/or VI of this Permit,  
2 and shall be chosen with consideration of the potential future site use for that TSD  
3 unit/area. Definitions contained within [Chapter 173-340 WAC](#) shall apply to Permit  
4 Condition II.K. Where definitions are not otherwise provided by this Permit, the  
5 [HFFACO](#), or [Chapter 173-303 WAC](#).
- 6 II.K.6 Deviations from a TSD unit closure plan required by unforeseen circumstances  
7 encountered during closure activities, which do not impact the overall closure strategy,  
8 but provide equivalent results, shall be documented in the TSD unit-specific Operating  
9 Record and made available to Ecology upon request, or during the course of an  
10 inspection.
- 11 II.K.7 Where agreed to by Ecology, integration of other statutorily or regulatory mandated  
12 cleanups may be accommodated by this Permit. Results from other cleanup investigation  
13 activities shall be used whenever possible to supplement and/or replace TSD unit closure  
14 investigation activities. All, or appropriate parts of, multipurpose cleanup and closure  
15 documents can be incorporated into this Permit through the Permit modification process.  
16 Cleanup and closures conducted under any statutory authority, with oversight by either  
17 Ecology or the EPA, which meet the equivalent of the technical requirements of Permit  
18 Conditions II.K.1 through II.K.4, may be considered as satisfying the requirements of this  
19 Permit.

20 **II.L DESIGN AND OPERATION OF THE FACILITY**

- 21 II.L.1 Proper Design and Construction
- 22 The Permittees will design, construct, maintain, and operate the Facility to minimize the  
23 possibility of a fire, explosion, or any unplanned sudden or non-sudden release of  
24 hazardous substances to air, soil, ground water, or surface water, which could threaten  
25 human health, or the environment.
- 26 II.L.2 Design Changes, Nonconformance, and As-Built Drawings
- 27 II.L.2.a After completing the Permit modification process in Permit Condition I.C.3, the  
28 Permittees will conduct all construction subject to this Permit in accordance with the  
29 approved designs, plans and specifications that are required by this Permit, unless  
30 authorized otherwise in Permit Conditions II.L.2.b or II.L.2.c. For purposes of Permit  
31 Conditions II.L.2.b and II.L.2.c, an Ecology construction inspector, or TSD unit manager,  
32 are designated representatives of Ecology.
- 33 II.L.2.b During construction of a project subject to this Permit, changes to the approved designs,  
34 plans and specifications will be formally documented. All design change documentation  
35 will be maintained in the TSD unit-specific Operating Record and will be made available  
36 to Ecology upon request or during the course of an inspection. The Permittees will  
37 provide copies of design change documentation affecting any critical system to Ecology  
38 within five (5) working days of initiating the design change documentation.  
39 Identification of critical systems will be included by the Permittees in each TSD unit-  
40 specific dangerous waste Permit application, closure plan or Permit modification, as  
41 appropriate. Ecology will review a design change documentation modifying a critical  
42 system, and inform the Permittees in writing within two (2) working days, whether the  
43 proposed design change documentation, when issued, will require a Class 1, 2, or 3  
44 Permit modification. If after two (2) working days Ecology has not responded, it will be  
45 deemed as acceptance of the design change documentation by Ecology.
- 46 II.L.2.c During construction of a project subject to this Permit, any work completed which does  
47 not meet or exceed the standards of the approved design, plans and specifications will be

1 formally documented with nonconformance documentation. All nonconformance  
2 documentation will be maintained in the TSD unit-specific Operating Record and will be  
3 made available to Ecology upon request, or during the course of an inspection. The  
4 Permittees will provide copies of nonconformance documentation affecting any critical  
5 system to Ecology within five (5) working days after identification of the  
6 nonconformance. Ecology will review nonconformance documentation affecting a  
7 critical system and inform the Permittees in writing, within two (2) working days,  
8 whether a Permit modification is required for any nonconformance, and whether prior  
9 approval is required from Ecology before work proceeds, which affects the  
10 nonconforming item. If Ecology does not respond within two (2) working days, it will be  
11 deemed as acceptance and no Permit modification will be required.

12 **II.L.2.d** Upon completion of a construction project subject to this Permit, the Permittees will  
13 produce as-built drawings of the project which incorporate the design and construction  
14 modifications resulting from all project design change documentation and  
15 nonconformance documentation, as well as modifications made pursuant to  
16 [WAC 173-303-830](#). The Permittees will place the drawings into the Operating Record  
17 within twelve (12) months of completing construction, or within an alternate period of  
18 time specified in a unit-specific Permit Condition in Part III or V of this Permit.

19 **II.L.2.e** Facility Compliance  
20 The Permittees in receiving, storing, transferring, handling, treating, processing, and  
21 disposing of dangerous waste, will design, operate, and/or maintain the Facility in  
22 compliance with all applicable federal, state, and local laws and regulations.

23 **II.M SECURITY**

24 The Permittees will comply with the security provisions of [WAC 173-303-310](#). The  
25 Permittees may comply with the requirements of [WAC 173-303-310\(2\)](#) on a unit-by-unit  
26 basis.

27 **II.N RECEIPT OF DANGEROUS WASTES GENERATED OFF-SITE**

28 **II.N.1** Receipt of Off-Site Waste  
29 The Permittees will comply with Permit Conditions II.N.2 and II.N.3 for any dangerous  
30 wastes which are received from sources outside the United States, or from off-site  
31 generators.

32 **II.N.2** Waste from Sources Outside the United States  
33 The Permittees will meet the requirements of [WAC 173-303-290\(1\)](#) for waste received  
34 from outside the United States.

35 **II.N.3** Notice to Generator  
36 For waste received from off-site sources (except where the owner/operator is also the  
37 generator), the Permittees will inform the generator in writing that they have the  
38 appropriate Permits for, and will accept, the waste the generator is shipping, as required  
39 by [WAC 173-303-290\(3\)](#). The Permittees will keep a copy of this written notice as part  
40 of the TSD unit-specific Operating Record.

41 **II.O GENERAL INSPECTION REQUIREMENTS**

42 **II.O.1** The Permittees will inspect the Facility to prevent malfunctions and deterioration,  
43 operator errors, and discharges, which may cause or lead to the release of dangerous  
44 waste constituents to the environment, or threaten human health. Inspections must be

- 1 conducted in accordance with the provisions of [WAC 173-303-320\(2\)](#). In addition to the  
2 TSD unit inspections specified in Parts III, V, and/or VI, the following inspections will  
3 also be conducted:
- 4 II.O.1.a The 100, 200 East, 200 West, 300, and 400 areas will be inspected annually.
- 5 II.O.1.b The Permittees will inspect the banks of the Columbia River, contained within the  
6 Facility boundary, once a year. The inspection will be performed from the river, by boat,  
7 and the inspectors will follow the criteria in Permit Condition II.O.1.c.
- 8 II.O.1.c The Permittees will visually inspect the areas identified in Permit Conditions II.O.1.a and  
9 II.O.1.b for malfunctions, deterioration, operator errors, and discharges which may cause  
10 or lead to the release of dangerous waste constituents to the environment, or that threaten  
11 human health. Specific items to be noted are as follows:
- 12 II.O.1.c.i Remains of waste containers, labels, or other waste management equipment;
- 13 II.O.1.c.ii Solid waste disposal sites not previously identified for remedial action;
- 14 II.O.1.c.iii Uncontrolled waste containers (e.g., orphan drums);
- 15 II.O.1.c.iv Temporary or permanent activities that could generate an uncontrolled waste form; and
- 16 II.O.1.c.v Unpermitted waste discharges.
- 17 II.O.1.d The Permittees will notify Ecology at least seven (7) days prior to conducting these  
18 inspections in order to allow representatives of Ecology to be present during the  
19 inspections.
- 20 II.O.2 If the inspection by the Permittees, conducted pursuant to Permit Condition II.O.1,  
21 reveals any problems, the Permittees will take remedial action on a schedule agreed to by  
22 Ecology.
- 23 II.O.3 The inspection of high radiation areas will be addressed on a case-by-case basis in either  
24 Part III of this Permit, or prior to the inspections required in Permit Condition II.O.1.

25 **II.P MANIFEST SYSTEM**

- 26 II.P.1 The Permittees will comply with the manifest requirements of [WAC 173-303-370](#) for  
27 waste received from off-site and [WAC 173-303-180](#) for waste shipped off-site.
- 28 II.P.2 Transportation of dangerous wastes along roadways, if such routes are not closed to  
29 general public access at the time of transport, can be manifested pursuant to an alternate  
30 tracking system as allowed by [WAC 173-303-180\(6\)](#). The alternate tracking system can  
31 be a paper system or an electronic system. The roadways addressed by this condition are  
32 a public or private right-of-way within or along the border of contiguous property where  
33 the movement is under control of the USDOE. The alternate tracking system will consist  
34 of documentation between the offering Hanford Facility location and the receiving  
35 Hanford Facility location containing the following information:
- 36 II.P.2.a Hanford Facility offeror name, location, and telephone number;
- 37 II.P.2.b Hanford Facility receiver name, location, and telephone number;
- 38 II.P.2.c Description of waste;
- 39 II.P.2.d Number and type of containers;
- 40 II.P.2.e Total quantity of waste;
- 41 II.P.2.f Unit volume/weight;

- 1 II.P.2.g Dangerous waste number(s) or U.S. Department of Transportation hazard class; and  
2 II.P.2.h Special handling instructions including emergency contacts.  
3 II.P.3 The Hanford Facility offeror and receiver will resolve any discrepancies of information  
4 found related to Permit Conditions II.P.2.a through II.P.2.h.  
5 II.P.4 If the discrepancies cannot be resolved at the Hanford Facility receiving location, a new  
6 Hanford Facility receiver location will be agreed upon, or the dangerous waste will be  
7 returned to the offeror location. The documentation accompanying the movement of  
8 dangerous waste will be updated to reflect the new receiving location.

9 **II.Q ON-SITE TRANSPORTATION**

- 10 II.Q.1 Documentation must accompany any on-site dangerous waste which is transported to or  
11 from any TSD unit subject to this Permit, through or within the 600 Area, unless the  
12 roadway is closed to general public access at the time of shipment. Waste transported by  
13 rail or by pipeline is exempt from this Condition. This documentation will include the  
14 following information, unless other unit-specified provisions are designated in Part III or  
15 V of this Permit:  
16 II.Q.1.a Generator's name, location, and telephone number;  
17 II.Q.1.b Receiving TSD unit's name, location, and telephone number;  
18 II.Q.1.c Description of waste;  
19 II.Q.1.d Number and type of containers;  
20 II.Q.1.e Total quantity of waste;  
21 II.Q.1.f Unit volume/weight;  
22 II.Q.1.g Dangerous waste number(s); and  
23 II.Q.1.h Any special handling instructions.  
24 II.Q.2 All non-containerized solid, dangerous waste transported to or from TSD units, subject to  
25 this Permit, will be covered to minimize the potential for material to escape during  
26 transport.

27 **II.R EQUIVALENT MATERIALS**

- 28 II.R.1 The Permittees may substitute an equivalent or superior product for any equipment or  
29 materials specified in this Permit. Use of equivalent or superior products will not be  
30 considered a modification of this Permit. A substitution will not be considered equivalent  
31 unless it is at least as effective as the original equipment or materials in protecting human  
32 health and the environment.  
33 II.R.2 The Permittees will place in the Operating Record (within seven [7] days after the change  
34 is put into effect) the substitution documentation, accompanied by a narrative  
35 explanation, and the date the substitution became effective. Ecology may judge the  
36 soundness of the substitution.  
37 II.R.3 If Ecology determines that a substitution was not equivalent to the original, it will notify  
38 the Permittees that the Permittees' claim of equivalency has been denied, of the reasons  
39 for the denial, and that the original material or equipment must be used. If the product  
40 substitution is denied, the Permittees will comply with the original approved product  
41 specification, or find an acceptable substitution.

1 **II.S LAND DISPOSAL RESTRICTIONS (LDR)**

2 Unless specifically identified otherwise in the [HFFACO](#), the Permittees will comply with  
3 all LDR requirements as set forth in [WAC 173-303-140](#).

4 **II.T ACCESS AND INFORMATION**

5 To the extent that work required by this Permit must be done on property not owned or  
6 controlled by the Permittees, the Permittees must utilize their best efforts to obtain access  
7 and information at these locations.

8 **II.U MAPPING OF UNDERGROUND PIPING**

9 II.U.1 Reserved.

10 II.U.2 Reserved.

11 II.U.3 The Permittees will maintain piping maps for existing, newly identified, and/or new  
12 dangerous waste underground pipelines (including active, inactive, and abandoned  
13 pipelines, which contain or contained dangerous waste subject to the provisions of  
14 [Chapter 173-303 WAC](#)) at the Hanford Facility. The maps will identify the origin,  
15 destination, direction of flow, size, depth and type (i.e., reinforced concrete, stainless  
16 steel, cast iron, etc.), of each pipe, and the location of their diversion boxes, valve pits,  
17 seal pots, catch tanks, receiver tanks, and pumps, and utilize Washington State Plane  
18 Coordinates, NAD 83(91), meters. If the type of pipe material is not documented on  
19 existing drawings, the most probable material type will be provided. The maps will also  
20 identify whether the pipe is active, inactive, or abandoned. The age of all pipes requiring  
21 identification pursuant to this Condition will be documented in an Attachment to the  
22 submittal. If the age cannot be documented, an estimate of the age of the pipe will be  
23 provided based upon best engineering judgment. These maps need not include the pipes  
24 within a fenced tank farm or within a building/structure. These maps will be compiled  
25 using documented QA/QC control methods and procedures outlined in DOE/RL-96-50,  
26 Hanford Facility RCRA Permit Mapping and Marking of Dangerous Waste Underground  
27 Pipelines Report, September 1996. These maps and any Attachments will be maintained  
28 in the Facility Operating Record and be updated annually as required by Permit  
29 Condition II.U.4.

30 II.U.4 Permittees will maintain current all maps required by Permit Condition II.U.3. These  
31 maps will be updated to incorporate new or revised information available by March 30th  
32 of each year. By September 30th of each year, the Permittees will submit to Ecology a  
33 list of maps that have been updated. The updated maps (including any Attachments) and  
34 the annual list submitted to Ecology will be maintained in the Facility Operating Record.

35 **II.V MARKING OF UNDERGROUND PIPING**

36 The Permittees will maintain marking of underground pipelines located outside the  
37 200 East, 200 West, 300, 400, 100N, and 100K Areas. These pipelines will be marked at  
38 the point they pass beneath an area fence, at their origin and destination, at any point they  
39 cross an improved road, and every 100 meters along the pipeline corridor where  
40 practicable. The markers will be labeled with a sign that reads "Buried Dangerous Waste  
41 Pipe" and will be visible from a distance of fifteen (15) meters.

1 **II.W OTHER PERMITS AND/OR APPROVALS**

2 II.W.1 The Permittees will be responsible for obtaining all other applicable federal, state, and  
3 local permits authorizing the development and operation of the Facility. To the extent  
4 that work required by this Permit must be done under a permit and/or approval pursuant  
5 to other regulatory authority, the Permittees will use their best efforts to obtain such  
6 permits.

7 II.W.2 All other permits related to dangerous waste management activities are severable and  
8 enforceable through the permitting authority under which they are issued.

9 II.W.3 All air emissions from units subject to this Permit will comply with all applicable state  
10 and federal regulations pertaining to air emission controls, including but not limited to,  
11 [Chapter 173-400 WAC](#), General Regulations for Air Pollution Sources; [Chapter 173-460](#)  
12 [WAC](#), Controls for New Sources of Toxic Air Pollutants; and [Chapter 173-480 WAC](#),  
13 Ambient Air Quality Standards and Emission Limits for Radionuclides.

14 **II.X SCHEDULE EXTENSIONS**

15 II.X.1 The Permittees will notify Ecology in writing, as soon as possible, of any deviations or  
16 expected deviations, from the schedules of this Permit. The Permittees will include with  
17 the notification all information supporting their claim that they have used best efforts to  
18 meet the required schedules. If Ecology determines that the Permittees have made best  
19 efforts to meet the schedules of this Permit, Ecology will notify the Permittees in writing  
20 by certified mail, that the Permittees have been granted an extension. Such an extension  
21 will not require a Permit modification under Permit Condition I.C.3. Should Ecology  
22 determine that the Permittees have not made best efforts to meet the schedules of this  
23 Permit, Ecology may take such action as deemed necessary.

24 Copies of all correspondence regarding schedule extensions will be kept in the Operating  
25 Record.

26 II.X.2 Any schedule extension granted through the approved change control process identified  
27 in the [HFFACO](#) will be incorporated into this Permit. Such a revision will not require a  
28 Permit modification under Permit Condition I.C.3.

29 **II.Y CORRECTIVE ACTION**

30 In accordance with [WAC 173-303-646](#) and [WAC 173-303-815\(2\)\(b\)\(ii\)](#), the Permittee  
31 must conduct corrective action, as necessary to protect human health and the  
32 environment, for releases of dangerous waste and dangerous constituents from solid  
33 waste management units and areas of concern at the facility, including releases that have  
34 migrated beyond the facility boundary. The Permittee may be required to implement  
35 measures within the facility to address releases, which have migrated beyond the  
36 facility's boundary. As specified in Permit Conditions II.Y.1.g, II.Y.2.a.iii, and  
37 II.Y.2.a.ii, the Permittee's right to challenge Ecology's authority to impose corrective  
38 action with respect to radionuclides, CERCLA Past Practice (CPP) Units (as identified  
39 under Permit Condition II.Y.2.a.) and selected solid waste management units not covered  
40 by the [HFFACO](#) at property currently subleased to US Ecology, Inc. (as identified under  
41 Permit Condition II.Y.3.a.i), is reserved until such time as Ecology chooses to impose  
42 corrective action in accordance with the Permit modification procedures of  
43 [WAC 173-303-830](#).

44 II.Y.1 Compliance with [Chapter 173-340 WAC](#)

45 In accordance with [WAC 173-303-646](#), the Permittee must conduct corrective action "as  
46 necessary to protect human health and the environment". To ensure that corrective action

- 1 will be conducted as necessary to protect human health and the environment, except as  
2 provided in Permit Condition II.Y.2, the Permittee must conduct corrective action in a  
3 manner that complies with the following provisions of [Chapter 173-340 WAC](#):
- 4 II.Y.1.a As necessary to select a cleanup action in accordance with [WAC 173-340-360](#) and  
5 [WAC 173-340-350](#) State Remedial Investigation and Feasibility Study;
- 6 II.Y.1.b [WAC 173-340-360](#) Selection of Cleanup Actions;
- 7 II.Y.1.c [WAC 173-340-400](#) Cleanup Actions;
- 8 II.Y.1.d [WAC 173-340-410](#) Compliance Monitoring Requirements;
- 9 II.Y.1.e [WAC 173-340-420](#) Periodic Site Reviews;
- 10 II.Y.1.f [WAC 173-340-440](#) Institutional Controls; and
- 11 II.Y.1.g [WAC 173-340-700 through -760](#) Cleanup Standards, except that to the extent that  
12 Ecology seeks to impose corrective action with respect to radionuclides regulated under  
13 the provisions of the Atomic Energy Act, as amended, 42 U.S.C. § 2011 et.seq. (AEA),  
14 the Permittee may challenge Ecology's authority to impose such corrective action  
15 through a timely appeal of the permit modification issued by Ecology without argument  
16 from Ecology that such right has been waived by a failure to fully litigate that issue  
17 through an appeal taken within thirty (30) days of the issuance of this permit, and without  
18 argument from the Permittee that such requirement fails to satisfy a cause for Permit  
19 modification under [WAC 173-303-830\(3\)\(a\)](#).
- 20 II.Y.2 Acceptance of Work under Other Authorities or Programs and Integration with the  
21 [HFFACO](#).
- 22 Corrective action is necessary to protect human health and the environment for all units  
23 identified in [Appendix B](#) and [Appendix C](#) of the [HFFACO](#). Notwithstanding Permit  
24 Condition II.Y.1, work under other cleanup authorities or programs, including work  
25 under the [HFFACO](#), may be used to satisfy corrective action requirements, provided it  
26 protects human health and the environment.
- 27 II.Y.2.a For units identified in [Appendix C](#) of the [HFFACO](#), as amended, as CERCLA Past  
28 Practice (CPP) Units, Ecology accepts work under the [HFFACO](#), as amended, and under  
29 the CERCLA program, as satisfying corrective action requirements to the extent provided  
30 for in, and subject to the reservations and requirements of, Permit Conditions II.Y.2.a.i  
31 through II.Y.2.a.iv.
- 32 II.Y.2.a.i For any unit identified in [Appendix C](#) of the [HFFACO](#) as a CPP unit, the Permittee must  
33 comply with the requirements and schedules related to investigation and cleanup of the  
34 CPP unit(s) developed and approved under the [HFFACO](#), as amended. The requirements  
35 and schedules related to investigation and cleanup of CPP units currently in place under  
36 the [HFFACO](#), as amended, and in the future developed and approved under the [FFAOC](#),  
37 as amended, are incorporated into this Permit by this reference and apply under this  
38 Permit as if they were fully set forth herein. If the Permittee is not in compliance with  
39 requirements of the [HFFACO](#), as amended, that relate to investigation or cleanup of CPP  
40 unit(s), Ecology may take action to independently enforce the requirements as corrective  
41 action requirements under this Permit.
- 42 II.Y.2.a.ii For any unit identified in [Appendix C](#) of the [HFFACO](#) as a CPP unit, in the case of an  
43 interim ROD, a final decision about satisfaction of corrective action requirements will be  
44 made in the context of issuance of a final ROD.
- 45 II.Y.2.a.iii If EPA and Ecology, after exhausting the dispute resolution process under [Section XXVI](#)  
46 of the [HFFACO](#), cannot agree on requirements related to investigation or cleanup of CPP

- 1 unit(s), Ecology will notify the Permittee, in writing, of the disagreement and impose, in  
2 accordance with the Permit Modification Procedures of [WAC 173-303-830](#), a  
3 requirement for the Permittee to conduct corrective action for the subject unit(s) in  
4 accordance with Permit Condition II.Y.1. The Permittee may challenge Ecology's  
5 authority to impose such corrective action requirements through a timely appeal of such  
6 permit modification, without argument from Ecology that the Permittee's right to raise  
7 such challenge has been waived by a failure to fully litigate that issue through an appeal  
8 taken within thirty (30) days of the issuance of this permit, and without argument from  
9 the Permittee that such requirement fails to satisfy a cause for Permit modification under  
10 [WAC 173-303-830\(3\)\(a\)](#). Within sixty (60) days of receipt of the above permit  
11 modification, or within some other reasonable period of time agreed to by Ecology and  
12 the Permittee, the Permittee must submit for Ecology review and approval, a plan to  
13 conduct corrective action in accordance with Permit Condition II.Y.1 for the subject  
14 unit(s). The Permittee's plan may include a request that Ecology evaluate work under  
15 another authority or program. Approved corrective action plans under this Condition will  
16 be incorporated into this Permit in accordance with the Permit Modification Procedures  
17 of [WAC 173-303-830](#).
- 18 II.Y.2.a.iv The Permittee must maintain information on corrective action for CPP units covered by  
19 the [HFFACO](#) in accordance with the [HFFACO Action Plan §9.0](#) and [§10.0](#). In addition,  
20 the Permittee must maintain all reports and other information developed in whole, or in  
21 part, to implement the requirements of Permit Condition II.Y.2.a, including reports of  
22 investigations and all raw data, in the Facility Operating Record in accordance with  
23 Permit Condition II.I. Information that is maintained in the Hanford Site Administrative  
24 Record may be incorporated by reference into the Facility Operating Record.
- 25 II.Y.2.b For units identified in [Appendix C](#) of the [HFFACO](#), as amended, as RPP units, Ecology  
26 accepts work under the [HFFACO](#), as amended, as satisfying corrective action  
27 requirements to the extent provided for, and subject to the reservations and requirements  
28 of, Permit Conditions II.Y.2.b.i through II.Y.2.b.iv.
- 29 II.Y.2.b.i For any unit identified in [Appendix C](#) of the [HFFACO](#), as amended, as RPP unit, until a  
30 Permit modification is complete under Permit Condition II.Y.2.b.iii., the Permittee must  
31 comply with the requirements and schedules related to investigation and cleanup of RPP  
32 units developed and approved under the [HFFACO](#), as amended. The requirements and  
33 schedules related to investigation and cleanup of RPP units currently in place under the  
34 [HFFACO](#), as amended, and in the future developed and approved under the [HFFACO](#),  
35 as amended, are incorporated into this Permit by this reference and apply under this  
36 Permit as if they were fully set forth herein. Until a permit modification is complete  
37 under Permit Condition II.Y.2.b.iii, if the Permittee is not in compliance with  
38 requirements and schedules related to investigation and cleanup of RPP units developed  
39 and approved under the [HFFACO](#), as amended, Ecology may take action to  
40 independently enforce the requirements as corrective action requirements under this  
41 Permit.
- 42 II.Y.2.b.ii When the Permittee submits a corrective measures study for an individual RPP unit or a  
43 group of RPP units, the Permittee must, at the same time, recommend a remedy for the  
44 unit(s). The remedy recommendation must contain all the elements of a draft cleanup  
45 action plan under [WAC 173-340-360\(10\)](#).
- 46 II.Y.2.b.iii After considering the Permittees' corrective measures study and remedy  
47 recommendation, Ecology will make a tentative remedy selection decision and publish  
48 the decision for public review and comment. Public review and comment may be  
49 accomplished by publishing the tentative decision as a draft Permit under

- 1                    [WAC 173-303-840\(10\)](#), or by a method that provides an equivalent opportunity for  
2 public review and participation. Following public review and comment, Ecology will  
3 make a final remedy selection decision. Final remedy decisions will be incorporated into  
4 the Permit using the Permit Modification Procedures of [WAC 173-303-830](#).
- 5 II.Y.2.b.iv        The Permittee must maintain information on corrective action for RPP units covered by  
6 the [HFFACO](#), as amended, in accordance with [HFFACO Action Plan §9.0](#) and [§10.0](#). In  
7 addition, the Permittee must maintain all reports and other information developed in  
8 whole, or in part, to implement the requirements of Permit Condition II.Y.2.b, including  
9 reports of investigations and all raw data, in the Facility Operating Record in accordance  
10 with Permit Condition II.I. Information that is maintained in the Hanford Site  
11 Administrative Record may be incorporated into the Facility Operating Record by  
12 reference.
- 13 II.Y.2.c           For each TSD unit or group of units, when the Permittee submits a certification of closure  
14 or a certification of completion of post-closure care, or at an earlier time agreed to by  
15 Ecology and the Permittee, the Permittee must, at the same time, either:
- 16 II.Y.2.c.i        Document that the activities completed under closure and/or post-closure satisfy the  
17 requirements for corrective action; or
- 18 II.Y.2.c.ii        If the activities completed under closure and/or post-closure care do not satisfy corrective  
19 action requirements, identify the remaining corrective action requirements and the  
20 schedule under which they will be satisfied, if remaining corrective action requirements  
21 will be satisfied by work developed and carried out under the [HFFACO](#) provisions for  
22 RPP units or CPP units, a reference to the appropriate RPP or CPP process and schedule  
23 will suffice.
- 24 II.Y.2.c.iii       Ecology will make final decisions as to whether the work completed under closure and/or  
25 post-closure care satisfies corrective action, specify any unit-specific corrective action  
26 requirements, and incorporate the decision into this Permit in accordance with the Permit  
27 Modification Procedures of [WAC 173-303-830](#).
- 28 II.Y.2.d           Notwithstanding any other condition in this Permit, Ecology may directly exercise any  
29 administrative or judicial remedy under the following circumstances:
- 30 II.Y.2.d.i        Any discharge or release of dangerous waste, or dangerous constituents, which are not  
31 addressed by the [HFFACO](#), as amended;
- 32 II.Y.2.d.ii        Discovery of new information regarding dangerous constituents or dangerous waste  
33 management, including but not limited to, information about releases of dangerous waste  
34 or dangerous constituents which are not addressed under the [HFFACO](#), as amended; or
- 35 II.Y.2.d.iii       A determination that action beyond the terms of the [HFFACO](#), as amended, is necessary  
36 to abate an imminent and substantial endangerment to the public health, or welfare, or to  
37 the environment.
- 38 II.Y.3            Releases of Dangerous Waste or Dangerous Constituents Not Covered By the [HFFACO](#)
- 39 II.Y.3.a           US Ecology
- 40 II.Y.3.a.i        The following solid waste management units are not covered by the [HFFACO](#):
- 41                    A. US Ecology, Inc., SWMU 1: Chemical Trench;
- 42                    B. US Ecology, Inc., SWMU 2-13: Low-level radioactive waste trenches 1 through  
43                    11A; and
- 44                    C. US Ecology, Inc., SWMU 17: Underground resin tank.

- 1 II.Y.3.a.ii Selected solid waste management units identified in Permit Condition II.Y.3.a.i are  
2 currently being investigated by US Ecology in accordance with the Comprehensive  
3 Investigation US Ecology – Hanford Operations Workplan. Following completion of this  
4 investigation and any closure required of such solid waste management unit under the  
5 authority of the Washington State Department of Health, or within one (1) year of the  
6 effective date of this Permit Condition, whichever is earlier, Ecology will make a  
7 tentative decision as to whether additional investigation or cleanup is necessary to protect  
8 human health or the environment for the solid waste management units identified in  
9 Permit Condition II.Y.3.a.i, and publish that decision as a draft permit in accordance with  
10 [WAC 173-303-840\(10\)](#). Following the associated public comment period, and  
11 consideration of any public comments received during the public comment period,  
12 Ecology will publish as final permit conditions under [WAC 173-303-840\(8\)](#) either:  
13  
14 A. a decision that corrective action is not necessary to protect human health or the  
15 environment;  
16 B. an extension to the schedule established under Permit Condition II.Y.3.a.ii; or  
17 C. a decision that corrective action in accordance with Permit Condition II.Y.1 is  
18 necessary to protect human health or the environment.  
19 II.Y.3.a.iii If Ecology decides under Permit Condition II.Y.3.a.ii that corrective action is necessary  
20 to protect human health or the environment, the Permittee may challenge Ecology’s  
21 authority to impose such corrective action requirements through a timely appeal of such  
22 permit modification, without argument from Ecology that the right to raise such  
23 challenge has been waived by a failure to fully litigate that issue through an appeal taken  
24 within thirty (30) days of the issuance of this permit, and with argument from the  
25 Permittee that such requirement fails to satisfy a cause for permit modification under  
26 [WAC 173-303-830\(3\)\(a\)](#). Within one hundred and eighty (180) days of receipt of the  
27 above Permit modification, the Permittee must submit, for Ecology review and approval,  
28 a plan to conduct corrective action in accordance with Permit Condition II.Y.1.  
29 Approved corrective action plans under this condition will be incorporated into this  
30 Permit in accordance with the Permit Modification Procedures of [WAC 173-303-830](#).  
31 II.Y.3.b Newly Identified Solid Waste Management Units and Newly Identified Releases of  
32 Dangerous Waste or Dangerous Constituents.  
33 The Permittee must notify Ecology of all newly-identified solid waste management units  
34 and all newly-identified areas of concern at the Facility. For purposes of this condition, a  
35 ‘newly-identified’ solid waste management unit or a ‘newly-identified’ area of concern is  
36 a unit or area not identified in the [HFFACO](#), as amended, on the effective date of this  
37 condition and not identified by Permit Condition II.Y.3.a. Notification to Ecology must  
38 be in writing and must include, for each newly-identified unit or area, the information  
39 required by [WAC 173-303-806\(4\)\(a\)\(xxiii\)](#) and [WAC 173-303-806\(4\)\(a\)\(xxiv\)](#).  
40 Notification to Ecology must occur at least once every calendar year, in January, and  
41 must include all units and areas newly identified since the last notification, except that if  
42 a newly identified unit or area may present an imminent and substantial endangerment to  
43 human health or the environment, notification must occur within five (5) days of  
44 identification of the unit or area. If information required by  
45 [WAC 173-303-806\(4\)\(a\)\(xxiii\)](#) or [WAC 173-303-806\(4\)\(a\)\(xxiv\)](#) is already included in  
46 the Waste Information Data System, it may be incorporated by reference into the required  
notification.

1 **II.Z WASTE MINIMIZATION**

2 In accordance with [WAC 173-303-380\(1\)\(q\)](#), and Section 3005(h) of RCRA, 42 U.S.C.  
3 6925(h), the Permittee must place a certification in the Hanford Facility Operating  
4 Record, Unit-Specific Files on an annual basis that:

5 II.Z.1.a A program is in place to reduce the volume and toxicity of hazardous waste generated to  
6 the degree determined by the Permittee to be economically practicable; and,

7 II.Z.1.b The proposed method of treatment, storage or disposal is that practicable method  
8 currently available to the Permittee, which minimizes the present and future threat to  
9 human health and the environment.

10 II.Z.2 The Permittee will maintain each such certification of waste minimization in the  
11 operating record as required by Permit Condition II.I.1.

12 **II.AA AIR EMISSION STANDARDS FOR PROCESS VENTS**

13 The Permittees will comply with applicable requirements of [WAC 173-303-690](#) for  
14 process vents associated with Part III units performing specific separations processes  
15 unless exempted by [WAC 173-303-690\(1\)\(d\)](#). Threshold limits applied to process vents  
16 potentially requiring emission controls subject to [WAC 173-303-690](#) are evaluated based  
17 on the summation of applicable emission sources for the entire Hanford Facility. When  
18 the summed emissions fall below threshold limits in [40 CFR 264.1032\(a\)\(1\)](#), no emission  
19 control devices are required. If threshold limits in [40 CFR 264.1032\(a\)\(1\)](#) are predicted  
20 to be exceeded, the Permittees will notify Ecology to determine the appropriate course of  
21 action. Unit-specific information is contained in Part III of the Permit for applicable  
22 units.

23 **II.BB AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS**

24 The Permittees will comply with applicable requirements of [WAC 173-303-691](#) for  
25 certain equipment leaks associated with Part III units unless exempted by  
26 [WAC 173-303-691\(1\)\(e\) or \(f\)](#). Air emission standards apply to equipment that contacts  
27 or contains hazardous wastes with organic concentrations of at least 10 percent by  
28 weight. Unit-specific information is contained in Part III of the Permit for applicable  
29 units.

30 **II.CC AIR EMISSION STANDARDS FOR TANKS, SURFACE IMPOUNDMENTS,  
31 AND CONTAINERS**

32 The Permittees shall comply with applicable requirements of [WAC 173-303-692](#) for  
33 containers, tanks, and surface impoundment areas associated with Part III units unless  
34 exempted by [WAC 173-303-692\(1\)\(b\)](#). Unit-specific information is contained in Part III  
35 of the Permit for applicable units.

1 **PART III UNIT-SPECIFIC CONDITIONS FOR FINAL STATUS OPERATIONS**

- 2 Operating Unit 1, 305-B Storage Facility (Closed 7/2/07)
- 3 Operating Unit 2, PUREX Storage Tunnels
- 4 Operating Unit 3, Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility
- 5 Operating Unit 4, 242-A Evaporator
- 6 Operating Unit 5, 325 Hazardous Waste Treatment Units
- 7 Operating Unit 10, Waste Treatment and Immobilization Plant
- 8 Operating Unit 11, Integrated Disposal Facility
- 9 Operating Unit 15, 331-C Storage Unit
- 10 Operating Unit 16, 400 Area Waste Management Unit

11 **PART IV UNIT SPECIFIC CONDITIONS FOR CORRECTIVE ACTION**

- 12 Corrective Action Unit 1, 100-NR-1
- 13 Corrective Action Unit 2, 100-NR-2

14 **PART V UNIT-SPECIFIC CONDITIONS FOR UNITS UNDERGOING CLOSURE**

- 15 Closure Unit 1, 1325-N Liquid Waste Disposal Facility
- 16 Closure Unit 2, 1301-N Liquid Waste Disposal Facility
- 17 Closure Unit 3, 1324-N Surface Impoundment and 1324-NA Percolation Pond
- 18 Closure Unit 10, 224-T Transuranic Waste Storage and Assay Facility

19 **PART VI UNIT-SPECIFIC CONDITIONS FOR UNITS IN POST-CLOSURE**

- 20 Post-Closure Unit 1, 300 Area Process Trenches
- 21 Post-Closure Unit 2, 183-H Solar Evaporation Basins

22 **UNITS RETIRED FROM THE PERMIT**

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- 23 100 D Ponds (Closed 8/9/99)
- 24 105-DR Large Sodium Fire Facility (Closed 7/1/04)
- 25 200 West Area Ash Pit Demolition Site (Closed 11/28/95)
- 26 2101-M Pond (Closed 11/28/95)
- 27 216-B-3 Expansion Ponds (Closed 7/31/95)
- 28 218-E-8 Borrow Pit Demolition Site (Closed 11/28/95)
- 29 241-Z Treatment and Storage Tanks (Closed 2/22/07)
- 30 2727-S Nonradioactive Dangerous Waste Storage Facility (Closed 7/31/95)
- 31 300 Area Solvent Evaporator (Closed 7/31/95)
- 32 300 Area Waste Acid Treatment System (Closed 10/30/2005)
- 33 303-K Storage Facility (Closed 7/22/02)
- 34 303-M Oxide Facility (Closed 6/15/06)
- 35 304 Concretion Facility (Closed 1/21/96)
- 36 3718-F Alkali Metal Treatment and Storage Facility Closure Plan (Closed 8/4/98)
- 37 4843 Alkali Metal Storage Facility Closure Plan (Closed 4/14/97)
- 38 Hanford Patrol Academy Demolition Site (Closed 11/28/95)
- 39 Plutonium Finishing Plant Treatment Unit (Closed 2/8/05)
- 40 Simulated High Level Waste Slurry Treatment and Storage Unit (Closed 10/23/95)
- 41

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