

Permit Number: WA7 89000 8967

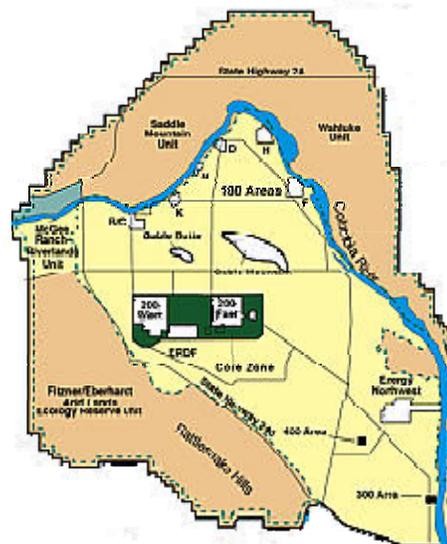
Revision Number: 8C



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

August 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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13 This Permit as modified on August 28, 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 Jane A. Hedges, Program Manager
20 Nuclear Waste Program, Department of Ecology

Date: _____

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1 **List of Attachments**

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 ¹1 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

1 **Introduction**

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. (CHG), [co-operator], Washington Closure Hanford, LLC (WCH), [co-operator], and Bechtel
15 National, Incorporated (BNI), [co-operator], hereafter called the Permittees, for the treatment, storage,
16 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.

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 | |
| PART III, OPERATING UNITS | | | |
| 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 | | |
| PART V, UNDERGOING CLOSURE UNITS | | | |
| 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 | | |

| PART VI, POSTCLOSURE UNITS | | | |
|--|-------|-----|------------------|
| 183-H Solar Evaporation Basin | Rev 4 | | |
| 300 Area Process Trenches | Rev 3 | | |
| PROCEDURALLY CLOSED | | | |
| 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 F | N/A | N/A | Closed, 9/11/03 |
| Biological Treatment Test Facilities | N/A | N/A | Closed, 12/10/96 |
| Physical & Chemical Treatment & Test | 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 |
| TO BE INCORPORATED | | | |
| 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 | | | |
| TRANSITION UNDER TPA SECTION 8 (Will not be incorporated into Permit) | | | |
| B Plant Complex | | | |
| PUREX Plant | | | |

1 **DEFINITIONS**

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. (CH2), and Bechtel National, Inc.
18 (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.

ACRONYMS

| | | |
|----|------------------------|---|
| 1 | | |
| 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 | CHG | 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 | HFFACO | 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 |

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.

CHG 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 ¹I 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 **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\(2\)](#);

42 II.D.3.d The frequency with which analysis of a waste will be reviewed, or repeated, to ensure
43 that the analysis is accurate and current;

- 1 II.D.3.e The waste analyses which generators have agreed to supply;
- 2 II.D.3.f Where applicable, the methods for meeting the additional waste analysis requirements for
3 specific waste management methods, as specified in [WAC 173-303-140\(4\)\(b\)](#),
4 [173-303-395\(1\)](#), [173-303-630 through 173-303-670](#), and [40 CFR 264.1034](#), [264.1063](#),
5 [284\(a\)](#), and [268.7](#), for final status facilities;
- 6 II.D.3.f.i For off-site facilities, the procedures for confirming that each dangerous waste received
7 matches the identity of the waste specified on the accompanying manifest, or shipping
8 paper. This includes at least:
- 9 II.D.3.f.i.1 The procedure for identifying each waste movement at the Facility; and,
- 10 II.D.3.f.i.2 The method for obtaining a representative sample of the waste to be identified, if the
11 identification method includes sampling.
- 12 II.D.3.f.ii For surface impoundments exempted from Land Disposal Restrictions (LDR) under
13 [40 CFR 268.4\(a\)](#), incorporated by reference in [WAC 173-303-140\(2\)](#), the procedures and
14 schedules for:
- 15 1. The sampling of impoundment contents;
16 2. The analysis of test data; and
17 3. The annual removal of residues that are not delisted under [40 CFR 260.22](#), or which
18 exhibit a characteristic of hazardous waste and either;
19 a. Do not meet applicable treatment standards of [40 CFR Part 268, Subpart D](#); or
20 b. Where no treatment standards have been established:
21 i) Such residues are prohibited from land disposal under [40 CFR 268.32](#), or
22 [RCRA Section 3004\(d\)](#); or
23 ii) Such residues are prohibited from land disposal under [40 CFR 268.33\(f\)](#); and
- 24 II.D.3.f.iii For off-site facilities, the procedures for confirming that each dangerous waste received
25 matches the identity of the waste specified on the accompanying manifest, or shipping
26 paper. This includes, at least:
- 27 II.D.3.f.i.3 The procedure for identifying each waste movement at the Facility; and
- 28 II.D.3.f.i.4 The method for obtaining a representative sample of the waste to be identified, if the
29 identification method includes sampling.
- 30 II.D.4 Should waste analysis be required by this Permit at a location on the Facility, other than
31 at a TSD unit, a SAP will be maintained by the Permittees, and made available upon
32 request from Ecology. Any SAP required by this Permit, not associated with a particular
33 TSD unit, will include the elements of Permit Conditions II.D.3.a.i through II.D.3.a.iv.
- 34 **II.E QUALITY ASSURANCE/QUALITY CONTROL**
- 35 II.E.1 All WAPs and SAPs required by this Permit will include a quality assurance/quality
36 control (QA/QC) plan, or equivalent, to document all monitoring procedures to ensure
37 that all information, data, and resulting decisions are technically sound, statistically valid,
38 and properly documented in accordance with [HFFACO Action Plan §6.5](#), Quality
39 Assurance, and reported/made available in accordance with [HFFACO Action Plan §9.6](#),
40 Data Access and Delivery Requirements.

1 II.E.2 The level of QA/QC for the collection, preservation, transportation, and analysis of each
2 sample required for implementation of this Permit may be based upon an Ecology-
3 approved DQO for the sample. These DQOs will be approved by Ecology in writing or
4 through incorporation of unit plans and Permits into Parts III, V, and/or VI of this Permit.

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

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

18 II.F.1 Purgewater Management

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

21 II.F.2 Well Remediation and Abandonment

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

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

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

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

44 II.F.3 Well Construction

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

1 **II.G SITING CRITERIA**

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

4 **II.H RECORDKEEPING AND REPORTING**

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

8 **II.I FACILITY OPERATING RECORD**

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

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

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

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

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

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

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

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

44 II.I.1.h Reserved Condition;

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

- 1 II.J.4 The Permittees will close the Facility in a manner that:
- 2 II.J.4.a Minimizes the need for further maintenance;
- 3 II.J.4.b Controls, minimizes or eliminates, to the extent necessary to protect human health and the
4 environment, post-closure escape of dangerous waste, dangerous constituents, leachate,
5 contaminated run-off, or dangerous waste decomposition products, to the ground, surface
6 water, ground water, or the atmosphere; and
- 7 II.J.4.c Returns the land to the appearance and use of surrounding land areas to the degree
8 possible, given the nature of the previous dangerous waste activity.
- 9 II.J.4.d Meets the requirements of [WAC 173-303-610\(2\)\(b\)](#).
- 10 **II.K SOIL/GROUND WATER CLOSURE PERFORMANCE STANDARDS**
- 11 II.K.1 For purposes of Permit Condition II.K, the term "clean closure" shall mean the status of a
12 TSD unit at the Facility which has been closed to the cleanup levels prescribed by
13 [WAC 173-303-610\(2\)\(b\)](#), provided certification of such closure has been accepted by
14 Ecology.
- 15 II.K.2 The Permittees may close a TSD unit to background levels as defined in Ecology
16 approved Hanford Site Background Documents, if background concentrations exceed the
17 levels prescribed by Permit Condition II.K.1. Closure to these levels, provided the
18 Permittees comply with all other closure requirements for a TSD unit as identified in
19 Parts III, V, and/or VI of this Permit, shall be deemed as "clean closure".
- 20 II.K.3 Except for those TSD units identified in Permit Conditions II.K.1, II.K.2, or II.K.4, the
21 Permittees may close a TSD unit to a cleanup level specified under Method C of
22 [Chapter 173-340 WAC](#). Closure of a TSD unit to these levels, provided the Permittees
23 comply with all other closure requirements for the TSD unit as specified in Parts III, V,
24 and/or VI of the Permit, and provided the Permittees comply with Permit
25 Conditions II.K.3.a through II.K.3.c, shall be deemed as a "modified closure".
- 26 II.K.3.a For "modified closures", the Permittees shall provide institutional controls in accordance
27 with [WAC 173-340-440](#) which restricts access to the TSD unit for a minimum of
28 five (5) years following completion of closure. The specific details and duration of
29 institutional controls shall be specified in Parts III, V, and/or VI of this Permit for a
30 particular TSD unit.
- 31 II.K.3.b For "modified closures", the Permittees shall provide periodic assessments of the TSD
32 unit to determine the effectiveness of the closure. The specific details of the periodic
33 assessments shall be specified in Parts III, V, and/or VI of this Permit. The periodic
34 assessments shall include, as a minimum, a compliance monitoring plan in accordance
35 with [WAC 173-340-410](#) that will address the assessment requirements on a unit-by-unit
36 basis. At least one (1) assessment activity shall take place after a period of five (5) years
37 from the completion of closure, which will demonstrate whether the soils and ground
38 water have been maintained at or below the allowed concentrations as specified in
39 Parts III, V, or VI of this Permit. Should the required assessment activities identify
40 contamination above the allowable limits as specified in Parts III, V, and/or VI, the TSD
41 unit must be further remediated, or the requirements of II.K.4. must be followed. Should
42 the required assessment activities demonstrate that contamination has diminished, or
43 remained the same, the Permittees may request that Ecology reduce, or eliminate the
44 assessment activities and/or institutional controls.
- 45 II.K.3.c For "modified closures", the Permittees shall specify the particular activities required by
46 this Condition in a Post-Closure Permit application.

- 1 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
2 closure option, closing the TSD unit as a landfill may be selected. Closure and post-
3 closure of the TSD unit as a landfill, must follow the procedures and requirements
4 specified in [WAC 173-303-610](#).
- 5 II.K.5 The cleanup option selected shall be specified in Parts III, V, and/or VI of this Permit,
6 and shall be chosen with consideration of the potential future site use for that TSD
7 unit/area. Definitions contained within [Chapter 173-340 WAC](#) shall apply to Permit
8 Condition II.K. Where definitions are not otherwise provided by this Permit, the
9 [HFFACO](#), or [Chapter 173-303 WAC](#).
- 10 II.K.6 Deviations from a TSD unit closure plan required by unforeseen circumstances
11 encountered during closure activities, which do not impact the overall closure strategy,
12 but provide equivalent results, shall be documented in the TSD unit-specific Operating
13 Record and made available to Ecology upon request, or during the course of an
14 inspection.
- 15 II.K.7 Where agreed to by Ecology, integration of other statutorily or regulatory mandated
16 cleanups may be accommodated by this Permit. Results from other cleanup investigation
17 activities shall be used whenever possible to supplement and/or replace TSD unit closure
18 investigation activities. All, or appropriate parts of, multipurpose cleanup and closure
19 documents can be incorporated into this Permit through the Permit modification process.
20 Cleanup and closures conducted under any statutory authority, with oversight by either
21 Ecology or the EPA, which meet the equivalent of the technical requirements of Permit
22 Conditions II.K.1 through II.K.4, may be considered as satisfying the requirements of this
23 Permit.

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

- 25 II.L.1 Proper Design and Construction
- 26 The Permittees will design, construct, maintain, and operate the Facility to minimize the
27 possibility of a fire, explosion, or any unplanned sudden or non-sudden release of
28 hazardous substances to air, soil, ground water, or surface water, which could threaten
29 human health, or the environment.
- 30 II.L.2 Design Changes, Nonconformance, and As-Built Drawings
- 31 II.L.2.a After completing the Permit modification process in Permit Condition I.C.3, the
32 Permittees will conduct all construction subject to this Permit in accordance with the
33 approved designs, plans and specifications that are required by this Permit, unless
34 authorized otherwise in Permit Conditions II.L.2.b or II.L.2.c. For purposes of Permit
35 Conditions II.L.2.b and II.L.2.c, an Ecology construction inspector, or TSD unit manager,
36 are designated representatives of Ecology.
- 37 II.L.2.b During construction of a project subject to this Permit, changes to the approved designs,
38 plans and specifications will be formally documented. All design change documentation
39 will be maintained in the TSD unit-specific Operating Record and will be made available
40 to Ecology upon request or during the course of an inspection. The Permittees will
41 provide copies of design change documentation affecting any critical system to Ecology
42 within five (5) working days of initiating the design change documentation.
43 Identification of critical systems will be included by the Permittees in each TSD unit-
44 specific dangerous waste Permit application, closure plan or Permit modification, as
45 appropriate. Ecology will review an design change documentation modifying a critical
46 system, and inform the Permittees in writing within two (2) working days, whether the
47 proposed design change documentation , when issued, will require a Class 1, 2, or 3

- 1 Permit modification. If after two (2) working days Ecology has not responded, it will be
2 deemed as acceptance of the design change documentation by Ecology.
- 3 **II.L.2.c** During construction of a project subject to this Permit, any work completed which does
4 not meet or exceed the standards of the approved design, plans and specifications will be
5 formally documented with nonconformance documentation. All nonconformance
6 documentation will be maintained in the TSD unit-specific Operating Record and will be
7 made available to Ecology upon request, or during the course of an inspection. The
8 Permittees will provide copies of nonconformance documentation affecting any critical
9 system to Ecology within five (5) working days after identification of the
10 nonconformance. Ecology will review nonconformance documentation affecting a
11 critical system and inform the Permittees in writing, within two (2) working days,
12 whether a Permit modification is required for any nonconformance, and whether prior
13 approval is required from Ecology before work proceeds, which affects the
14 nonconforming item. If Ecology does not respond within two (2) working days, it will be
15 deemed as acceptance and no Permit modification will be required.
- 16 **II.L.2.d** Upon completion of a construction project subject to this Permit, the Permittees will
17 produce as-built drawings of the project which incorporate the design and construction
18 modifications resulting from all project design change documentation and
19 nonconformance documentation, as well as modifications made pursuant to
20 [WAC 173-303-830](#). The Permittees will place the drawings into the Operating Record
21 within twelve (12) months of completing construction, or within an alternate period of
22 time specified in a unit-specific Permit Condition in Part III or V of this Permit.
- 23 **II.L.2.e** Facility Compliance
- 24 The Permittees in receiving, storing, transferring, handling, treating, processing, and
25 disposing of dangerous waste, will design, operate, and/or maintain the Facility in
26 compliance with all applicable federal, state, and local laws and regulations.
- 27 **II.M SECURITY**
- 28 The Permittees will comply with the security provisions of [WAC 173-303-310](#). The
29 Permittees may comply with the requirements of [WAC 173-303-310\(2\)](#) on a unit-by-unit
30 basis.
- 31 **II.N RECEIPT OF DANGEROUS WASTES GENERATED OFF-SITE**
- 32 **II.N.1** Receipt of Off-Site Waste
- 33 The Permittees will comply with Permit Conditions II.N.2 and II.N.3 for any dangerous
34 wastes which are received from sources outside the United States, or from off-site
35 generators.
- 36 **II.N.2** Waste from Sources Outside the United States
- 37 The Permittees will meet the requirements of [WAC 173-303-290\(1\)](#) for waste received
38 from outside the United States.
- 39 **II.N.3** Notice to Generator
- 40 For waste received from off-site sources (except where the owner/operator is also the
41 generator), the Permittees will inform the generator in writing that they have the
42 appropriate Permits for, and will accept, the waste the generator is shipping, as required
43 by [WAC 173-303-290\(3\)](#). The Permittees will keep a copy of this written notice as part
44 of the TSD unit-specific Operating Record.

1 **II.O GENERAL INSPECTION REQUIREMENTS**

2 II.O.1 The Permittees will inspect the Facility to prevent malfunctions and deterioration,
3 operator errors, and discharges, which may cause or lead to the release of dangerous
4 waste constituents to the environment, or threaten human health. Inspections must be
5 conducted in accordance with the provisions of [WAC 173-303-320\(2\)](#). In addition to the
6 TSD unit inspections specified in Parts III, V, and/or VI, the following inspections will
7 also be conducted:

8 II.O.1.a The 100, 200 East, 200 West, 300, and 400 areas will be inspected annually.

9 II.O.1.b The Permittees will inspect the banks of the Columbia River, contained within the
10 Facility boundary, once a year. The inspection will be performed from the river, by boat,
11 and the inspectors will follow the criteria in Permit Condition II.O.1.c.

12 II.O.1.c The Permittees will visually inspect the areas identified in Permit Conditions II.O.1.a and
13 II.O.1.b for malfunctions, deterioration, operator errors, and discharges which may cause
14 or lead to the release of dangerous waste constituents to the environment, or that threaten
15 human health. Specific items to be noted are as follows:

16 II.O.1.c.i Remains of waste containers, labels, or other waste management equipment;

17 II.O.1.c.ii Solid waste disposal sites not previously identified for remedial action;

18 II.O.1.c.iii Uncontrolled waste containers (e.g., orphan drums);

19 II.O.1.c.iv Temporary or permanent activities that could generate an uncontrolled waste form; and

20 II.O.1.c.v Unpermitted waste discharges.

21 II.O.1.d The Permittees will notify Ecology at least seven (7) days prior to conducting these
22 inspections in order to allow representatives of Ecology to be present during the
23 inspections.

24 II.O.2 If the inspection by the Permittees, conducted pursuant to Permit Condition II.O.1,
25 reveals any problems, the Permittees will take remedial action on a schedule agreed to by
26 Ecology.

27 II.O.3 The inspection of high radiation areas will be addressed on a case-by-case basis in either
28 Part III of this Permit, or prior to the inspections required in Permit Condition II.O.1.

29 **II.P MANIFEST SYSTEM**

30 II.P.1 The Permittees will comply with the manifest requirements of [WAC 173-303-370](#) for
31 waste received from off-site and [WAC 173-303-180](#) for waste shipped off-site.

32 II.P.2 Transportation of dangerous wastes along roadways, if such routes are not closed to
33 general public access at the time of transport, can be manifested pursuant to an alternate
34 tracking system as allowed by [WAC 173-303-180\(6\)](#). The alternate tracking system can
35 be a paper system or an electronic system. The roadways addressed by this condition are
36 a public or private right-of-way within or along the border of contiguous property where
37 the movement is under control of the USDOE. The alternate tracking system will consist
38 of documentation between the offering Hanford Facility location and the receiving
39 Hanford Facility location containing the following information:

40 II.P.2.a Hanford Facility offeror name, location, and telephone number;

41 II.P.2.b Hanford Facility receiver name, location, and telephone number;

42 II.P.2.c Description of waste;

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

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

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

30 **II.R EQUIVALENT MATERIALS**

- 31 II.R.1 The Permittees may substitute an equivalent or superior product for any equipment or
32 materials specified in this Permit. Use of equivalent or superior products will not be
33 considered a modification of this Permit. A substitution will not be considered equivalent
34 unless it is at least as effective as the original equipment or materials in protecting human
35 health and the environment.
- 36 II.R.2 The Permittees will place in the Operating Record (within seven [7] days after the change
37 is put into effect) the substitution documentation, accompanied by a narrative
38 explanation, and the date the substitution became effective. Ecology may judge the
39 soundness of the substitution.

1 II.R.3 If Ecology determines that a substitution was not equivalent to the original, it will notify
2 the Permittees that the Permittees' claim of equivalency has been denied, of the reasons
3 for the denial, and that the original material or equipment must be used. If the product
4 substitution is denied, the Permittees will comply with the original approved product
5 specification, or find an acceptable substitution.

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

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

9 **II.T ACCESS AND INFORMATION**

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

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

14 II.U.1 Reserved.

15 II.U.2 Reserved.

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

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

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

2 The Permittees will maintain marking of underground pipelines located outside the
3 200 East, 200 West, 300, 400, 100N, and 100K Areas. These pipelines will be marked at
4 the point they pass beneath an area fence, at their origin and destination, at any point they
5 cross an improved road, and every 100 meters along the pipeline corridor where
6 practicable. The markers will be labeled with a sign that reads "Buried Dangerous Waste
7 Pipe" and will be visible from a distance of fifteen (15) meters.

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

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

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

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

21 **II.X SCHEDULE EXTENSIONS**

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

31 Copies of all correspondence regarding schedule extensions will be kept in the Operating
32 Record.

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

1 **II.Y CORRECTIVE ACTION**

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

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

17 In accordance with [WAC 173-303-646](#), the Permittee must conduct corrective action "as
18 necessary to protect human health and the environment". To ensure that corrective action
19 will be conducted as necessary to protect human health and the environment, except as
20 provided in Permit Condition II.Y.2, the Permittee must conduct corrective action in a
21 manner that complies with the following provisions of [Chapter 173-340 WAC](#):

22 II.Y.1.a As necessary to select a cleanup action in accordance with [WAC 173-340-360](#) and
23 [WAC 173-340-350](#) State Remedial Investigation and Feasibility Study;

24 II.Y.1.b [WAC 173-340-360](#) Selection of Cleanup Actions;

25 II.Y.1.c [WAC 173-340-400](#) Cleanup Actions;

26 II.Y.1.d [WAC 173-340-410](#) Compliance Monitoring Requirements;

27 II.Y.1.e [WAC 173-340-420](#) Periodic Site Reviews;

28 II.Y.1.f [WAC 173-340-440](#) Institutional Controls; and

29 II.Y.1.g [WAC 173-340-700 through -760](#) Cleanup Standards, except that to the extent that
30 Ecology seeks to impose corrective action with respect to radionuclides regulated under
31 the provisions of the Atomic Energy Act, as amended, 42 U.S.C. § 2011 et seq (AEA),
32 the Permittee may challenge Ecology's authority to impose such corrective action
33 through a timely appeal of the permit modification issued by Ecology without argument
34 from Ecology that such right has been waived by a failure to fully litigate that issue
35 through an appeal taken within thirty (30) days of the issuance of this permit, and without
36 argument from the Permittee that such requirement fails to satisfy a cause for Permit
37 modification under [WAC 173-303-830\(3\)\(a\)](#).

38 II.Y.2 Acceptance of Work Under Other Authorities or Programs and Integration with the
39 [HFFACO](#).

40 Corrective action is necessary to protect human health and the environment for all units
41 identified in [Appendix B](#) and [Appendix C](#) of the [HFFACO](#). Notwithstanding Permit
42 Condition II.Y.1, work under other cleanup authorities or programs, including work
43 under the [HFFACO](#), may be used to satisfy corrective action requirements, provided it
44 protects human health and the environment.

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

- 1 II.Y.2.b.i For any unit identified in [Appendix C](#) of the [HFFACO](#), as amended, as RPP unit, until a
2 Permit modification is complete under Permit Condition II.Y.2.b.iii., the Permittee must
3 comply with the requirements and schedules related to investigation and cleanup of RPP
4 units developed and approved under the [HFFACO](#), as amended. The requirements and
5 schedules related to investigation and cleanup of RPP units currently in place under the
6 [HFFACO](#), as amended, and in the future developed and approved under the [HFFACO](#), as
7 amended, are incorporated into this Permit by this reference and apply under this Permit
8 as if they were fully set forth herein. Until a permit modification is complete under
9 Permit Condition II.Y.2.b.iii, if the Permittee is not in compliance with requirements and
10 schedules related to investigation and cleanup of RPP units developed and approved
11 under the [HFFACO](#), as amended, Ecology may take action to independently enforce the
12 requirements as corrective action requirements under this Permit.
- 13 II.Y.2.b.ii When the Permittee submits a corrective measures study for an individual RPP unit or a
14 group of RPP units, the Permittee must, at the same time, recommend a remedy for the
15 unit(s). The remedy recommendation must contain all the elements of a draft cleanup
16 action plan under [WAC 173-340-360\(10\)](#).
- 17 II.Y.2.b.iii After considering the Permittees' corrective measures study and remedy
18 recommendation, Ecology will make a tentative remedy selection decision and publish
19 the decision for public review and comment. Public review and comment may be
20 accomplished by publishing the tentative decision as a draft Permit under
21 [WAC 173-303-840\(10\)](#), or by a method that provides an equivalent opportunity for
22 public review and participation. Following public review and comment, Ecology will
23 make a final remedy selection decision. Final remedy decisions will be incorporated into
24 the Permit using the Permit Modification Procedures of [WAC 173-303-830](#).
- 25 II.Y.2.b.iv The Permittee must maintain information on corrective action for RPP units covered by
26 the [HFFACO](#), as amended, in accordance with [HFFACO Action Plan §9.0](#) and [§10.0](#). In
27 addition, the Permittee must maintain all reports and other information developed in
28 whole, or in part, to implement the requirements of Permit Condition II.Y.2.b, including
29 reports of investigations and all raw data, in the Facility Operating Record in accordance
30 with Permit Condition II.I. Information that is maintained in the Hanford Site
31 Administrative Record may be incorporated into the Facility Operating Record by
32 reference.
- 33 II.Y.2.c For each TSD unit or group of units, when the Permittee submits a certification of closure
34 or a certification of completion of post-closure care, or at an earlier time agreed to by
35 Ecology and the Permittee, the Permittee must, at the same time, either:
- 36 II.Y.2.c.i Document that the activities completed under closure and/or post-closure satisfy the
37 requirements for corrective action; or
- 38 II.Y.2.c.ii If the activities completed under closure and/or post-closure care do not satisfy corrective
39 action requirements, identify the remaining corrective action requirements and the
40 schedule under which they will be satisfied, if remaining corrective action requirements
41 will be satisfied by work developed and carried out under the [HFFACO](#) provisions for
42 RPP units or CPP units, a reference to the appropriate RPP or CPP process and schedule
43 will suffice.
- 44 II.Y.2.c.iii Ecology will make final decisions as to whether the work completed under closure and/or
45 post-closure care satisfies corrective action, specify any unit-specific corrective action
46 requirements, and incorporate the decision into this Permit in accordance with the Permit
47 Modification Procedures of [WAC 173-303-830](#).

- 1 II.Y.2.d Notwithstanding any other condition in this Permit, Ecology may directly exercise any
2 administrative or judicial remedy under the following circumstances:
- 3 II.Y.2.d.i Any discharge or release of dangerous waste, or dangerous constituents, which are not
4 addressed by the [HFFACO](#), as amended;
- 5 II.Y.2.d.ii Discovery of new information regarding dangerous constituents or dangerous waste
6 management, including but not limited to, information about releases of dangerous waste
7 or dangerous constituents which are not addressed under the [HFFACO](#), as amended; or
- 8 II.Y.2.d.iii A determination that action beyond the terms of the [HFFACO](#), as amended, is necessary
9 to abate an imminent and substantial endangerment to the public health, or welfare, or to
10 the environment.
- 11 II.Y.3 Releases of Dangerous Waste or Dangerous Constituents Not Covered By the [HFFACO](#)
- 12 II.Y.3.a US Ecology
- 13 II.Y.3.a.i The following solid waste management units are not covered by the [HFFACO](#):
- 14 A. US Ecology, Inc., SWMU 1: Chemical Trench;
- 15 B. US Ecology, Inc., SWMU 2-13: Low-level radioactive waste trenches 1 through
16 11A; and
- 17 C. US Ecology, Inc., SWMU 17: Underground resin tank.
- 18 II.Y.3.a.ii Selected solid waste management units identified in Permit Condition II.Y.3.a.i are
19 currently being investigated by US Ecology in accordance with the Comprehensive
20 Investigation US Ecology – Hanford Operations Workplan. Following completion of this
21 investigation and any closure required of such solid waste management unit under the
22 authority of the Washington State Department of Health, or within one (1) year of the
23 effective date of this Permit Condition, whichever is earlier, Ecology will make a
24 tentative decision as to whether additional investigation or cleanup is necessary to protect
25 human health or the environment for the solid waste management units identified in
26 Permit Condition II.Y.3.a.i, and publish that decision as a draft permit in accordance with
27 [WAC 173-303-840\(10\)](#). Following the associated public comment period, and
28 consideration of any public comments received during the public comment period,
29 Ecology will publish as final permit conditions under [WAC 173-303-840\(8\)](#) either:
- 30 A. a decision that corrective action is not necessary to protect human health or the
31 environment;
- 32 B. an extension to the schedule established under Permit Condition II.Y.3.a.ii; or
- 33 C. a decision that corrective action in accordance with Permit Condition II.Y.1 is
34 necessary to protect human health or the environment.
- 35 II.Y.3.a.iii If Ecology decides under Permit Condition II.Y.3.a.ii that corrective action is necessary
36 to protect human health or the environment, the Permittee may challenge Ecology’s
37 authority to impose such corrective action requirements through a timely appeal of such
38 permit modification, without argument from Ecology that the right to raise such
39 challenge has been waived by a failure to fully litigate that issue through an appeal taken
40 within thirty (30) days of the issuance of this permit, and with argument from the
41 Permittee that such requirement fails to satisfy a cause for permit modification under
42 [WAC 173-303-830\(3\)\(a\)](#). Within one hundred and eighty (180) days of receipt of the
43 above Permit modification, the Permittee must submit, for Ecology review and approval,
44 a plan to conduct corrective action in accordance with Permit Condition II.Y.1.
45 Approved corrective action plans under this condition will be incorporated into this
46 Permit in accordance with the Permit Modification Procedures of [WAC 173-303-830](#).

1 II.Y.3.b Newly Identified Solid Waste Management Units and Newly Identified Releases of
2 Dangerous Waste or Dangerous Constituents.
3 The Permittee must notify Ecology of all newly-identified solid waste management units
4 and all newly-identified areas of concern at the Facility. For purposes of this condition, a
5 'newly-identified' solid waste management unit or a 'newly-identified' area of concern is
6 a unit or area not identified in the [HFFACO](#), as amended, on the effective date of this
7 condition and not identified by Permit Condition II.Y.3.a. Notification to Ecology must
8 be in writing and must include, for each newly-identified unit or area, the information
9 required by [WAC 173-303-806\(4\)\(a\)\(xxiii\)](#) and [WAC 173-303-806\(4\)\(a\)\(xxiv\)](#).
10 Notification to Ecology must occur at least once every calendar year, in January, and
11 must include all units and areas newly identified since the last notification, except that if
12 a newly identified unit or area may present an imminent and substantial endangerment to
13 human health or the environment, notification must occur within five (5) days of
14 identification of the unit or area. If information required by
15 [WAC 173-303-806\(4\)\(a\)\(xxiii\)](#) or [WAC 173-303-806\(4\)\(a\)\(xxiv\)](#) is already included in
16 the Waste Information Data System, it may be incorporated by reference into the required
17 notification.

18 **II.Z WASTE MINIMIZATION**

19 In accordance with [WAC 173-303-380\(1\)\(q\)](#), and Section 3005(h) of RCRA, 42 U.S.C.
20 6925(h), the Permittee must place a certification in the Hanford Facility Operating
21 Record, Unit-Specific Files on an annual basis that:

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

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

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

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

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

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

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

1 **II.CC AIR EMISSION STANDARDS FOR TANKS, SURFACE IMPOUNDMENTS,**
2 **AND CONTAINERS**

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

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

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

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

- 18 Corrective Action Unit 1, 100-NR-1
- 19 Corrective Action Unit 2, 100-NR-2

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

- 21 Closure Unit 1, 1325-N Liquid Waste Disposal Facility
- 22 Closure Unit 2, 1301-N Liquid Waste Disposal Facility
- 23 Closure Unit 3, 1324-N Surface Impoundment and 1324-NA Percolation Pond
- 24 Closure Unit 5, 300 Area Waste Acid Treatment System
- 25 Closure Unit 10, 224-T Transuranic Waste Storage and Assay Facility

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

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

1 **UNITS RETIRED FROM THE PERMIT**

- 2 241-Z Treatment and Storage Tanks, (Closed 2/22/07)
- 3 303-M Oxide Facility, (Closed 6/15/06)
- 4 Plutonium Finishing Plant Treatment Unit, (Closed 2/8/05)
- 5 105-DR Large Sodium Fire Facility, (Closed 7/1/04)
- 6 303-K Storage Facility (Closed, 7/22/02)
- 7 100 D Ponds, (Closed, 8/9/99)
- 8 3718-F Alkali Metal Treatment and Storage Facility Closure Plan, (Closed, 8/4/98)
- 9 4843 Alkali Metal Storage Facility Closure Plan, (Closed, 4/14/97)
- 10 304 Concretion Facility, (Closed, 1/21/96)
- 11 218-E-8 Borrow Pit Demolition Site, (Closed, 11/28/95)
- 12 200 West Area Ash Pit Demolition Site, (Closed, 11/28/95)
- 13 2101-M Pond, (Closed, 11/28/95)
- 14 Hanford Patrol Academy Demolition Site, (Closed, 11/28/95)
- 15 Simulated High Level Waste Slurry Treatment and Storage Unit, (Closed, 10/23/95)
- 16 300 Area Solvent Evaporator, (Closed, 7/31/95)
- 17 2727-S Nonradioactive Dangerous Waste Storage Facility, (Closed, 7/31/95)
- 18 216-B-3 Expansion Ponds, (Closed, 7/31/95)

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