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

Department of Ecology
Nuclear Waste Program
P.O. Box 47600
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Telephone: (206) 407-7132

Issued in accordance with the applicable provisions of the Hazardous Waste Management Act, Chapter 70.105 RCW, and the regulations promulgated thereunder in Chapter 173-303 WAC.

ISSUED TO:

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This Permit is effective as of September 28, 1994, and shall remain in effect through September 27, 2004, unless revoked and reissued under WAC 173-303-830(3), or terminated under WAC 173-303-830(5), or continued in accordance with WAC 173-303-806(7).

ISSUED BY: WASHINGTON STATE DEPARTMENT OF ECOLOGY

[Signature]
Drusilla Butler, Program Manager
Nuclear Waste Program
Department of Ecology

Date: AUGUST 29, 1994



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INTRODUCTION

Pursuant to Chapter 70.105 Revised Code of Washington (RCW), the Hazardous Waste Management Act (HWMA) of 1976, as amended, Chapter 70.105D RCW, the Model Toxics Control Act, and regulations promulgated thereunder by the Washington State Department of Ecology (hereafter called the Department), codified in Chapter 173-303 Washington Administrative Code (WAC), Dangerous Waste Regulations, a Dangerous Waste Permit is issued to the U.S. Department of Energy - Richland Operations Office (DOE-RL), (owner/operator), and its contractors (Westinghouse Hanford Company (Westinghouse Hanford) (co-operator), Pacific Northwest Laboratory (PNL) (co-operator), and Bechtel Hanford, Incorporated (BHI) (co-operator)) (hereafter called the Permittees), for the treatment, storage, and disposal of dangerous waste at the Hanford Facility.

This Dangerous Waste Permit, issued in conjunction with the U.S. Environmental Protection Agency's, (hereafter call the Agency) Hazardous and Solid Waste Amendments Portion of the Resource Conservation and Recovery Act Permit for the Treatment, Storage, and Disposal of Hazardous Waste (HSWA Permit), constitutes the Resource Conservation and Recovery Act Permit (RCRA Permit) for the Hanford Facility. Use of the term "Permit" within the Dangerous Waste Permit shall refer to the Dangerous Waste Permit while use of the term "Permit" within the HSWA Permit shall refer to the HSWA Permit. Use of the same term in both the Dangerous Waste Permit and the HSWA Permit, shall have the standard meaning associated with the activities addressed by the Permit in which the term is used. Such meanings shall prevail except where specifically stated otherwise.

The Permittees shall comply with all terms and Conditions set forth in this Permit and those portions of the Attachments that have been specifically incorporated into this Permit. When the Permit and the Attachments (except Attachment 1) conflict, the wording of the Permit will prevail. The Permit is intended to be consistent with the terms and conditions of the Hanford Federal Facility Agreement and Consent Order (FFACO, Attachment 1). The Permittees shall also comply with all applicable State regulations, including Chapter 173-303 WAC.

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

This Permit is based upon the administrative record, as required by WAC 173-303-840. The Permittees' failure in the application or during the Permit issuance process to fully disclose all relevant facts, or the Permittees'

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1 misrepresentation of any relevant facts at any time, shall be grounds for the
2 termination or modification of this Permit and/or initiation of an enforcement
3 action, including criminal proceedings. The Permittees shall inform the
4 Department of any deviation from Permit Conditions or changes in the
5 information on which the application is based which would affect either the
6 Permittees' ability to comply or actual compliance with the applicable
7 regulations or Permit Conditions or which alters any Condition of this Permit
8 in any way.
9

10 The Department shall enforce all Conditions of this Permit for which the State
11 of Washington is authorized, or which are "state-only" provisions (i.e.,
12 Conditions broader in scope or more stringent than the Federal RCRA program).
13

14 Any challenges of any Permit Condition may be appealed in accordance with WAC
15 173-303-845. In the event that any Permit Condition is challenged by any
16 Permittee under WAC 173-303-845, the Department may stay any such Permit
17 Condition as it pertains to all Permittees in accordance with the same terms
18 of any stay it grants to the challenging Permittee. If such a stay is
19 granted, it will constitute a "stay by the issuing agency" within the meaning
20 of RCW 43.21B.320(1).
21

22 This Permit has been developed to allow a step-wise permitting process of the
23 Hanford Facility to ensure the proper implementation of the FFAO. In order
24 to accomplish this, this Permit consists of five (5) Parts.
25

26 Part I, Standard Conditions, contains Conditions which are similar to those
27 appearing in all dangerous waste permits.
28

29 Part II, General Facility Conditions, combines typical dangerous waste Permit
30 Conditions with those Conditions intended to address issues specific to the
31 Hanford Facility. Where appropriate, the General Facility Conditions apply to
32 all final status dangerous waste management activities at the Facility. Where
33 appropriate, the General Facility Conditions also address dangerous waste
34 management activities which may not be directly associated with distinct
35 treatment, storage, and disposal (TSD) units or which may be associated with
36 many TSD units (i.e., spill reporting, training, contingency planning, etc.).
37

38 Part III, Unit-Specific Conditions for Operating Units, contains those Permit
39 requirements which apply to each individual TSD unit operating under final
40 status. Conditions for each TSD unit are found in a Chapter dedicated to that
41 TSD unit. These unit-specific Chapters contain references to Standard and
42 General Conditions (Parts I and II), as well as additional requirements which
43 are intended to ensure that each TSD unit is operated in an efficient and
44 environmentally protective manner.
45

46 Part IV, Corrective Actions for Past Practice, references the Agency's HSWA
47 Permit. The HSWA Permit contains those requirements that apply to the
48 identification of Solid Waste Management Units (SWMUs) at the Facility and

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1 conduct of investigations and remediations at such SWMUs. The HSWA Permit
2 addresses both SWMUs that are located on the USDOE managed portions of the
3 Facility as well as SWMUs which are not located on USDOE managed property
4 (i.e., leased lands). Any SWMUs located on USDOE managed property are, or
5 will be, included in the FFACO and assigned to operable units. The processes
6 and procedures to be followed, and the schedules of compliance for
7 investigation and subsequent remediation, will be contained in the FFACO.
8 SWMUs not located on USDOE managed property will undergo investigations and
9 remediations, as necessary, in accordance with the requirements and schedules
10 identified in the HSWA Permit.
11

12 It is intended that, once the Department receives authorization from the
13 Agency to implement the Corrective Action provisions, these requirements will
14 be incorporated into this Part through a Permit modification. Until the
15 Department receives authorization for the Corrective Action provisions of
16 RCRA, the Agency shall maintain regulatory lead for these requirements.
17

18 Part V, Unit-Specific Conditions for Units Undergoing Closure, contains those
19 requirements which apply to those specific TSD units included in this Part
20 that are undergoing closure. In accordance with Section 5.3. of the Action
21 Plan of the FFACO, all TSD units that undergo closure, irrespective of permit
22 status, shall be closed pursuant to the authorized State Dangerous Waste
23 Program in accordance with WAC 173-303-610. Requirements for each TSD unit
24 undergoing closure are found in a Chapter dedicated to that TSD unit. These
25 unit-specific Chapters contain references to Standard Conditions (Part I) and
26 General Conditions (Part II), as well as additional requirements which are
27 intended to ensure that each TSD unit is closed in an efficient and
28 environmentally protective manner.
29
30

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LIST OF ATTACHMENTS

The following listed documents are attached in their entirety. However, only those portions of the Attachments specified in Parts I through V are enforceable Conditions of this Permit and subject to the Permit modification requirements of Condition I.C.3. Changes to portions of the Attachments which are not subject to the Permit modification process shall be addressed in accordance with Conditions I.E.8., I.E.11., I.E.13., I.E.15. through I.E.20., and I.E.22. The Department has, as deemed necessary, modified specific language in these Attachments. These modifications are described in the Conditions (Parts I through V), and thereby supersede the language of the Attachment.

- Attachment 1 Hanford Federal Facility Agreement and Consent Order, (As Amended)
- Attachment 2 Hanford Facility Legal Description
- Attachment 3 Permit Applicability Matrix
- Attachment 4 Hanford Facility Contingency Plan, Revision 1, June 1993
- Attachment 5 Purgewater Management Plan, July 1990
- Attachment 6 Hanford Well Remediation and Decommissioning Plan, Revision 0
- Attachment 7 Policy on Remediation of Existing Wells and Acceptance Criteria for RCRA and CERCLA, June 1990
- Attachment 8 616 Nonradioactive Dangerous Waste Storage Facility Part A & Part B Permit Applications, Revision 2, September 1991
- Attachment 9 616 Nonradioactive Dangerous Waste Shipping Lists
- Attachment 10 616 Nonradioactive Dangerous Waste Facility Description of Procedures
- Attachment 11 183-H Solar Evaporation Basins Closure/Postclosure Plan, Revision 3, June 1991
- Attachment 12 Decommissioning Work Plan "Concrete Sampling - 183-H Solar Evaporation Basins" (DWP-H-080-00001) 8-26-91, Revision A-3

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- 1 Attachment 13 Decommissioning Work Plan "Core Drill Sampling - 183-H
2 Solar Evaporation Basins (Phase I)" (DWP-H-080-00005)
3 2-8-91, Revision A-1
4
5 Attachment 14 "183-H Solar Evaporation Basins Vadose Zone Sampling
6 Plan" (WHC-SD-EN-AP-056) 6-25-91, Revision 0
7
8 Attachment 15 Decommissioning Work Plan "Berm Removal for 183-H
9 Solar Evaporation Basins" (DWP-H-026-00008) 1-16-91,
10 Revision A-0
11
12 Attachment 16 300 Area Solvent Evaporator Closure Plan, Revision 3b,
13 September 1992
14
15 Attachment 17 2727-S Nonradioactive Dangerous Waste Storage Facility
16 Closure Plan, Revision 3, January 1992
17
18 Attachment 18 305-B Storage Facility Part A and Part B Permit
19 Applications, Revision 2, October 1992

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DEFINITIONS

All definitions contained in the FFACO, May 1989, as amended, are hereby incorporated, in their entirety, by reference into this Permit, except that any of the definitions used below, (a) through (n) shall supersede any definition of the same term given in the FFACO. However, the Permit is intended to be consistent with the FFACO.

All definitions contained in WAC 173-303-040 are hereby incorporated, in their entirety, by reference into this Permit, except that any of the definitions used below, (a) through (n), shall supersede any definition of the same term given in WAC 173-303-040.

Where terms are defined in both Chapter 173-303 WAC and the FFACO, the definitions contained in Chapter 173-303 WAC shall supersede any definition of the same term given in the FFACO.

Where terms are not defined in the regulations, the Permit or the FFACO, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

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

The following definitions apply throughout this Permit:

- a. The term "Critical Systems" as applied to determining whether a permit modification is required means those specific portions of a TSD unit's structure or equipment whose failure could lead to the release of dangerous waste into the environment and/or systems which include processes which treat, transfer, store or dispose of regulated wastes. A list identifying the critical systems of a specific TSD unit may be developed and included in Part III or Part V of this Permit. In developing a critical system list, or in the absence of a critical system list, WAC 173-303-830 modifications shall be considered.
- b. The term "Contractor(s)" means, unless specifically identified otherwise in this Permit or attachments, Westinghouse Hanford Company (Westinghouse Hanford), Pacific Northwest Laboratory (PNL), and Bechtel Hanford, Inc. (BHI).
- c. The term "Dangerous Waste" means those solid wastes designated under Chapter 173-303 WAC as dangerous or extremely hazardous waste. As used in the Permit, the word "dangerous waste" shall

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1 refer to the full universe of wastes regulated by Chapter 70.105
2 RCW and Chapter 173-303 WAC (including dangerous waste, hazardous
3 waste, extremely hazardous waste, mixed waste and acutely
4 hazardous waste).
5

- 6 d. The term "Days" means calendar days unless specifically identified
7 otherwise. Any submittal, notification, or recordkeeping
8 requirement that would be due under the Conditions of this Permit
9 on a Saturday, Sunday, or federal or state holiday shall be due on
10 the following business day unless specifically specified otherwise
11 in the Permit.
12
- 13 e. The term "Department" means the Washington State Department of
14 Ecology, (with the address as specified on page one (1) of this
15 Permit).
16
- 17 f. The term "Director" means the Director of the Washington State
18 Department of Ecology or a designated representative. The Program
19 Manager of the Nuclear Waste Program (with the address as
20 specified on page one of this Permit) is a duly authorized and
21 designated representative of the Director for purposes of this
22 Permit.
23
- 24 g. The term "Facility" means all contiguous land, and structures,
25 other appurtenances, and improvements on the land used for
26 recycling, reusing, reclaiming, transferring, storing, treating,
27 or disposing of dangerous waste. The legal and physical
28 description of the Facility is set forth in Attachment 2 of this
29 Permit.
30
- 31 h. The term "FFACO" means the Hanford Federal Facility Agreement and
32 Consent Order, as amended.
33
- 34 i. The term "RCRA Permit" means the Dangerous Waste Portion of the
35 RCRA Permit for the Treatment, Storage, and Disposal of Dangerous
36 Waste (Dangerous Waste Permit) issued by the Washington State
37 Department of Ecology, pursuant to Chapter 70.105 RCW and Chapter
38 173-303 WAC coupled with the HSWA Portion of the RCRA Permit for
39 the Treatment, Storage, and Disposal of Hazardous Waste (HSWA
40 Permit) issued by the EPA, Region 10, pursuant to 42 U.S.C. 6901
41 et seq. and 40 CFR Parts 124 and 270.
42
- 43 j. The term "Permittees" means the United States Department of Energy
44 (owner/operator), Westinghouse Hanford Company (co-operator),
45 Bechtel Hanford, Inc. (co-operator), and Pacific Northwest
46 Laboratory (co-operator).
47

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- 1 k. The term "Raw Data" means the initial value of analog or digital
2 instrument outputs and/or manually recorded values obtained from
3 measurement tools or personal observation. These values are
4 converted into reportable data (e.g., concentration, percent
5 moisture) via automated procedures and/or manual calculations.
6
- 7 l. The term "Reasonable Times" means normal business hours, hours
8 during which production, treatment, storage, construction,
9 disposal or discharge occurs or times when the Department suspects
10 a violation requiring immediate inspection.
11
- 12 m. The term "Significant Discrepancy" in regard to a manifest or
13 shipping paper means a discrepancy between the quantity or type of
14 dangerous waste designated on the manifest or shipping paper and
15 the quantity or type of dangerous waste a TSD unit actually
16 receives. A significant discrepancy in quantity is a variation
17 greater than ten (10) percent in weight for bulk quantities (e.g.,
18 tanker trucks, railroad tank cars, etc.), or any variation in
19 piece count for nonbulk quantities (i.e., any missing container or
20 package would be a significant discrepancy). A significant
21 discrepancy in type is an obvious physical or chemical difference
22 which can be discovered by inspection or waste analysis (e.g.,
23 waste solvent substituted for waste acid).
24
- 25 n. The term "Unit" (or "TSD unit"), as used in Parts I through V of
26 this Permit, means the contiguous area of land on or in which
27 dangerous waste is placed, or the largest area in which there is a
28 significant likelihood of mixing dangerous waste constituents in
29 the same area. A TSD unit, for purposes of this Permit, is a
30 subgroup of the Facility which has been identified in a Hanford
31 Facility Dangerous Waste Part A Permit Application Form 3.

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ACRONYMS

1		
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3		
4	AGENCY	U. S. Environmental Protection Agency, Region X
5	APP	Used to Denote Appendix Page Numbers
6		
7	BHI	Bechtel Hanford, Inc.
8		
9	CERCLA	Comprehensive Environmental Response Compensation and
10		Liability Act of 1980 (as Amended by the Superfund
11		Reauthorization Act of 1986)
12	CFR	Code of Federal Regulations
13	CIP	Construction Inspection Plan
14	CLP	Contract Laboratory Program
15		
16	Department	Washington State Department of Ecology
17	DOE-RL	U. S. Department of Energy, Richland Operations Office
18		
19	EC	Emergency Coordinator
20	Ecology	Washington State Department of Ecology
21	ECN	Engineering Change Notice
22	EPA	U.S. Environmental Protection Agency
23		
24	FFACO	Hanford Federal Facility Agreement and Consent Order
25		
26	HSWA	Hazardous and Solid Waste Amendments of 1984
27	HWMA	Hazardous Waste Management Act
28		
29	MTCA	Model Toxics Control Act
30		
31	NCR	Nonconformance Report
32	616 NRDWSF	616 Nonradioactive Dangerous Waste Storage Facility
33		
34	OSWER	Office of Solid Waste and Emergency Response
35		
36	PNL	Pacific Northwest Laboratory
37		
38	QA	Quality Assurance
39	QAPP	Quality Assurance Project Plan
40	QC	Quality Control
41		
42	RCRA	Resource Conservation and Recovery Act of 1976
43	RCW	Revised Code of Washington
44		
45	SAP	Sampling and Analysis Plan
46	SARA	Superfund Amendments and Reauthorization Act of 1986
47	SOP	Standard Operating Procedure
48	SWMU	Solid Waste Management Unit
49		

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1 TCLP Toxicity Characteristic Leaching Procedure
2 TSD Treatment, Storage, and/or Disposal
3
4 USDOE U.S. Department of Energy
5
6 WAC Washington Administrative Code
7 WAP Waste Analysis Plan
8 Westinghouse Westinghouse Hanford Company
9 Hanford
10
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PART I - STANDARD CONDITIONS

I.A. EFFECT OF PERMIT

I.A.1.a. 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 FFAO). 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 FFAO) 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 shall maintain interim status until that TSD unit is incorporated into Part III or V of this Permit or until interim status is terminated under WAC 173-303-805(8). Interim status units shall be incorporated into this Permit through the Permit modification process.

I.A.1.b. The Conditions of this Permit shall be applied to the Facility as defined by the Permit Applicability Matrix (Attachment 3).

I.A.2. USDOE is responsible for activities which include, but are not limited to, the overall management and operation of the Facility.

Westinghouse Hanford 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.

PNL 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.

BHI 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.

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1 I.A.3. Coordination With The FFACO

2
3 Each TSD unit shall have an application for a final status
4 permit or closure/postclosure plan submitted to the
5 Department in accordance with the schedules identified in
6 the FFACO (Milestone M-20-00). After completion of the
7 permit application or closure plan review, a final permit
8 decision will be made pursuant to WAC 173-303-840. Specific
9 conditions for each TSD unit shall be incorporated into this
10 Permit in accordance with the Class 3 permit modification
11 procedure identified in Condition I.C.3.

12
13 I.B. PERSONAL AND PROPERTY RIGHTS

14
15 This Permit does not convey property rights of any sort or
16 any exclusive privilege; nor does it authorize any injury to
17 persons or property, or any invasion of other private
18 rights, or any violation of Federal, State, or local laws or
19 regulations.

20
21 I.C. PERMIT ACTIONS

22
23 I.C.1. Modification, Revocation, Reissuance, or Termination

24
25 This Permit may be modified, revoked and reissued, or
26 terminated by the Department for cause as specified in WAC
27 173-303-830(3),(4), and (5).

28
29 I.C.2. Filing of a Request

30
31 The filing of a request for a permit modification, or
32 revocation and reissuance, or termination, or a notification
33 of planned changes or anticipated noncompliance on the part
34 of the Permittees shall not stay the applicability or
35 enforceability of any Condition except as provided in WAC
36 173-303-830(3),(4), and (5).

37
38 I.C.3. Modifications

39
40 Except as provided otherwise by specific language in this
41 Permit, the Permit modification procedures of WAC 173-303-
42 830 shall apply to modifications or changes in design or
43 operation of the Facility or any modification or change in
44 dangerous waste management practices covered by this Permit.
45 As an exception, the Permittees shall provide notifications
46 to the Department required by WAC 173-303-830(4)(a)(i)(A) on
47 a quarterly basis. Each quarterly notification shall be
48 submitted within ten days of the end of the quarter and

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1 provide the required information for all such modifications
2 put into effect during that reporting period. Quarterly
3 reporting periods shall be based upon the state Fiscal Year.
4

5 I.D. SEVERABILITY

6
7 I.D.1. Effect of Invalidation

8
9 The provisions of this Permit are severable, and if any
10 provision of this Permit, or the application of any
11 provision of this Permit to any circumstance is contested
12 and/or held invalid, the application of such provision to
13 other circumstances and the remainder of this Permit shall
14 not be affected thereby. Invalidation of any State
15 statutory or regulatory provision which forms the basis for
16 any Condition of this Permit does not affect the validity of
17 any other State statutory or regulatory basis for said
18 Condition.
19

20 I.D.2. Final Resolution

21
22 In the event that a Condition of this Permit is stayed for
23 any reason, the Permittees shall continue to comply with the
24 related applicable and relevant interim status standards in
25 WAC 173-303-400 until final resolution of the stayed
26 Condition, unless the Department determines compliance with
27 the related applicable and relevant interim status standards
28 would be technologically incompatible with compliance with
29 other Conditions of this Permit which have not been stayed,
30 or unless the FFACO authorizes an alternative action, in
31 which case the Permittees shall comply with the FFACO.
32

33 I.E. DUTIES AND REQUIREMENTS

34
35 I.E.1. Duty to Comply

36
37 The Permittees shall comply with all Conditions of this
38 Permit, except to the extent and for the duration such
39 noncompliance is authorized by an emergency permit issued
40 under WAC 173-303-804. Any Permit noncompliance other than
41 noncompliance authorized by an emergency permit constitutes
42 a violation of Chapter 70.105 RCW, as amended, and is
43 grounds for enforcement action, Permit termination,
44 modification or revocation and reissuance of the Permit,
45 and/or denial of a Permit renewal application.
46
47
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1 I.E.2. Compliance Not Constituting Defense

2
3 Compliance with the terms of this Permit does not constitute
4 a defense to any order issued or any action brought under
5 Section 3007, 3008, 3013, or 7003 of RCRA (42 U.S.C.
6 Sections 6927, 6928, 6934, and 6973), Section 104, 106(a) or
7 107 of the Comprehensive Environmental Response,
8 Compensation, and Liability Act of 1980 (CERCLA) [42 U.S.C.
9 Sections 9604, 9606(a), and 9607], as amended by the
10 Superfund Amendments and Reauthorization Act of 1986 (42
11 U.S.C. 9601 et seq.), or any other federal, state or local
12 law governing protection of public health or the
13 environment; provided, however, that compliance with this
14 Permit during its term constitutes compliance at those areas
15 subject to this Permit for the purpose of enforcement with
16 WAC 173-303-140, WAC 173-303-180, WAC 173-303-280 through -
17 395, WAC 173-303-600 through -680, WAC 173-303-810, and WAC
18 173-303-830, except for Permit modifications and those
19 requirements not included in the Permit that become
20 effective by statute, or that are promulgated under 40 CFR
21 Part 268 restricting the placement of dangerous waste in or
22 on the land.
23

24 I.E.3. Duty to Reapply

25
26 If the Permittees wish to continue an activity regulated by
27 this Permit after the expiration date of this Permit, the
28 Permittees must apply for and obtain a new Permit, in
29 accordance with WAC 173-303-806(6).
30

31 I.E.4. Permit Expiration and Continuation

32
33 This Permit, and all Conditions herein, will remain in
34 effect beyond the Permit's expiration date until the
35 effective date of the new permit if the Permittees have
36 submitted a timely, complete application for renewal per WAC
37 173-303-806 and, through no fault of the Permittees, the
38 Department has not made a final Permit determination as set
39 forth in WAC 173-303-840.
40

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

42
43 It shall not be a defense in the case of an enforcement
44 action that it would have been necessary to halt or reduce
45 the permitted activity in order to maintain compliance with
46 the Conditions of this Permit.
47
48

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1
2 I.E.6. Duty to Mitigate
3

4 In the event of noncompliance with the Permit, the
5 Permittees shall take all reasonable steps to minimize
6 releases to the environment, and shall carry out such
7 measures as are reasonable to minimize or correct adverse
8 impacts on human health and the environment.
9

10 I.E.7. Proper Operation and Maintenance
11

12 The Permittees shall at all times properly operate and
13 maintain all facilities and systems of treatment and control
14 which are installed or used by the Permittees to achieve
15 compliance with the Conditions of this Permit. Proper
16 operation and maintenance includes effective performance,
17 adequate funding, adequate operator staffing and training,
18 and adequate laboratory and process controls including
19 appropriate quality assurance/quality control procedures.
20 This provision requires the operation of backup or auxiliary
21 facilities or similar systems only when necessary to achieve
22 compliance with the Conditions of the Permit.
23

24 I.E.8. Duty to Provide Information
25

26 The Permittees shall furnish to the Department, within a
27 reasonable time, any relevant information which the
28 Department may request to determine whether cause exists for
29 modifying, revoking and reissuing or terminating this
30 Permit, or to determine compliance with this Permit. The
31 Permittees shall also furnish to the Department, upon
32 request, copies of records required to be kept by this
33 Permit.
34

35 I.E.9. Inspection and Entry
36

37 The Permittees shall allow the Department, or authorized
38 representatives, upon the presentation of Department
39 credentials, to:
40

41 I.E.9.a. During operating hours and at all other reasonable times,
42 enter and inspect the Facility or any unit or area within
43 the Facility where regulated activities are located or
44 conducted, or where records must be kept under the
45 Conditions of this Permit;
46

47 I.E.9.b. Have access to, and copy, at reasonable times, any records
48 that must be kept under the Conditions of this Permit;

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- 1 I.E.9.c. Inspect at reasonable times any portion of the Facility,
2 equipment (including monitoring and control equipment),
3 practices, or operations regulated or required under this
4 Permit; and,
5
- 6 I.E.9.d. Sample or monitor, at reasonable times, for the purposes of
7 assuring Permit compliance or as otherwise authorized by
8 State law, as amended, for substances or parameters at any
9 location.
10
- 11 I.E.10. **Monitoring and Records**
- 12
- 13 I.E.10.a. Samples and measurements taken by the Permittees for the
14 purpose of monitoring required by this Permit shall be
15 representative of the monitored activity. Sampling methods
16 shall be in accordance with WAC 173-303-110 or 40 CFR 261,
17 unless otherwise specified in this Permit or agreed to in
18 writing by the Department. Analytical methods shall be as
19 specified in the most recently published test procedure of
20 the documents cited in WAC 173-303-110(3)(a) through (d),
21 unless otherwise specified in this Permit or agreed to in
22 writing by the Department.
23
- 24 I.E.10.b. The Permittees shall retain at the TSD unit(s), or other
25 location approved by the Department, as specified in Parts
26 III or V of this Permit, records of monitoring information
27 required for compliance with this Permit, including
28 calibration and maintenance records and all original strip
29 chart recordings for continuous monitoring instrumentation,
30 copies of reports and records required by this Permit, and
31 records of data used to complete the application for this
32 Permit for a period of at least ten (10) years from the date
33 of the sample, measurement, report, or application, unless
34 otherwise required for certain information by other
35 Conditions of this Permit. This information may be retained
36 on electronic media.
37
- 38 I.E.10.c. The Permittees shall retain at the Facility, or other
39 approved location, records of all monitoring and maintenance
40 records, copies of all reports and records required by this
41 Permit, and records of all data used to complete the
42 application for this Permit which are not associated with a
43 particular TSD unit for a period of at least ten (10) years
44 from the date of certification of completion of postclosure
45 care or corrective action for the Facility, whichever is
46 later. This information may be retained on electronic
47 media.
48

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1 I.E.10.d. The record retention period may be extended by request of
2 the Department at any time by notification, in writing, to
3 the Permittees and is automatically extended during the
4 course of any unresolved enforcement action regarding this
5 Facility to ten (10) years beyond the conclusion of the
6 enforcement action.

7
8 I.E.10.e. Records of monitoring information shall include:

- 9
10 i. The date, exact place and time of sampling or
11 measurements;
12
13 ii. The individual who performed the sampling or
14 measurements and their affiliation;
15
16 iii. The dates the analyses were performed;
17
18 iv. The individual(s) who performed the analyses and their
19 affiliation;
20
21 v. The analytical techniques or methods used; and,
22
23 vi. The results of such analyses.
24

25 I.E.11. Reporting Planned Changes

26
27 The Permittees shall give notice to the Department as soon
28 as possible of any planned physical alterations or additions
29 to the Facility subject to this Permit. Such notice does
30 not authorize any noncompliance with or modification of this
31 Permit.
32

33 I.E.12. Certification of Construction or Modification

34
35 The Permittees may not commence treatment, storage, or
36 disposal of dangerous wastes in a new or modified portion of
37 TSD units subject to this Permit until:
38

- 39 i. The Permittees have submitted to the Department, by
40 certified mail, overnight express mail, or hand
41 delivery, a letter signed by the Permittees and a
42 registered professional engineer stating that the TSD
43 unit has been constructed or modified in compliance
44 with the Conditions of this Permit; and,
45
46 ii. The Department has inspected the modified or newly
47 constructed TSD unit, and finds that it is in
48 compliance with the Conditions of this Permit; or

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1 iii. Within 15 days of the date of receipt of the
2 Permittees' letter, the Permittees have not received
3 notice from the Department of its intent to inspect,
4 prior inspection is waived, and the Permittees may
5 commence treatment, storage, and disposal of dangerous
6 waste.

7
8 I.E.13. **Anticipated Noncompliance**

9
10 The Permittees shall give at least 30 days advance notice to
11 the Department of any planned changes in the Facility
12 subject to this Permit or planned activity which might
13 result in noncompliance with Permit requirements.

14
15 If 30 days advance notice is not possible, then the
16 Permittees shall give notice immediately after the
17 Permittees become aware of the anticipated noncompliance.
18 Such notice does not authorize any noncompliance with or
19 modification of this Permit.

20
21 I.E.14. **Transfer of Permits**

22
23 This Permit may be transferred to a new owner only if it is
24 modified or revoked and reissued pursuant to WAC 173-303-
25 830(3)(b). The Permit may be transferred to a new co-
26 operator in accordance with the provisions of WAC 173-303-
27 830(2). Before transferring ownership or operation of the
28 Facility during its operating life, the Permittees shall
29 notify the new owner or operator in writing of the
30 requirements of WAC 173-303-600 and -806 and this Permit.

31
32 I.E.15. **Immediate Reporting**

33
34 I.E.15.a The Permittees shall verbally report to the Department any
35 release of dangerous waste or hazardous substances, or any
36 noncompliance with the Permit which may endanger human
37 health or the environment. Any such information shall be
38 reported immediately after the Permittees become aware of
39 the circumstances.

40
41 I.E.15.b. The immediate verbal report shall contain all the
42 information needed to determine the nature and extent of any
43 threat to human health and the environment, including the
44 following:

- 45
46 i. Name, address, and telephone number of the Permittee
47 responsible for the release or noncompliant activity;
48

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- ii. Name, location, and telephone number of the unit at which the release occurred;
- iii. Date, time, and type of incident;
- iv. Name and quantity of material(s) involved;
- v. The extent of injuries, if any;
- vi. An assessment of actual or potential hazard to the environment and human health, where this is applicable;
- vii. Estimated quantity of released material that resulted from the incident; and,
- viii. Actions which have been undertaken to mitigate the occurrence.

I.E.15.c. The Permittees shall report, in accordance with Conditions I.E.15.a. and I.E.15.b., any information concerning the release or unpermitted discharge of any dangerous waste or hazardous substances that may cause an endangerment to drinking water supplies or ground or surface waters, or of a release or discharge of dangerous waste or hazardous substances or of a fire or explosion at the Facility, which may threaten human health or the environment. The description of the occurrence and its cause shall include all information necessary to fully evaluate the situation and to develop an appropriate course of action.

I.E.15.d. For any release or noncompliance not required to be reported to the Department immediately, a brief account must be entered within two (2) working days, into the TSD operating record, for a TSD unit, or into the Facility operating record, inspection log or separate spill log, for non-TSD units. This account must include: the time and date of the release, the location and cause of the release, the type and quantity of material released, and a brief description of any response actions taken or planned.

I.E.15.e. All releases, regardless of location of release or quantity of release, shall be controlled and mitigated, if necessary, as required by WAC 173-303-145(3).

1 I.E.16.

2 **Written Reporting**

3 Within 15 days after the time the Permittees become aware of
4 the circumstances of any noncompliance with this Permit
5 which may endanger human health or the environment, the
6 Permittees shall provide to the Department a written report.
7 The written report shall contain a description of the
8 noncompliance and its cause (including the information
9 provided in the verbal notification); the period of
10 noncompliance including exact dates and times; the
11 anticipated time noncompliance is expected to continue if
12 the noncompliance has not been corrected; corrective
13 measures being undertaken to mitigate the situation, and
14 steps taken or planned to reduce, eliminate, and prevent
15 reoccurrence of the noncompliance.

16 I.E.17.

17 **Manifest Discrepancy Report**

18 I.E.17.a.

19 For dangerous waste received from outside the Facility,
20 whenever a significant discrepancy in a manifest is
21 discovered, the Permittees shall attempt to reconcile the
22 discrepancy. If not reconciled within 15 days of discovery,
23 the Permittees shall submit a letter report in accordance
24 with WAC 173-303-370(4), including a copy of the applicable
25 manifest or shipping paper, to the Department.

26 I.E.17.b.

27 For dangerous waste which is being transported within the
28 Facility (i.e., shipment of on-site generated dangerous
29 waste), whenever a significant discrepancy in the shipping
30 papers (see Condition II.Q.1.) is discovered, the Permittees
31 shall attempt to reconcile the discrepancy. If not
32 reconciled within 15 days of discovery, the Permittees shall
33 note the discrepancy in the receiving unit's operating
34 record.

35 I.E.18.

36 **Unmanifested Waste Report**

37 The Permittees shall follow the provisions of WAC 173-303-
38 370 for the receipt of any dangerous waste shipment from
39 off-site. The Permittees shall also submit a report in
40 accordance with WAC 173-303-390(1) to the Department within
41 15 days of receipt of any unmanifested dangerous waste
42 shipment received from off-site sources.

43 I.E.19.

44 **Other Noncompliance**

45 The Permittees shall report to the Department all instances
46 of noncompliance not otherwise required to be reported
47
48

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1 elsewhere in this Permit at the time the Annual Dangerous
2 Waste Report is submitted.
3

4 I.E.20. Other Information

5
6 Whenever the Permittees become aware that they have failed
7 to submit any relevant facts in a permit application,
8 closure plan, or postclosure plan, or submitted incorrect
9 information in a permit application, closure plan, or
10 postclosure plan, or in any report to the Department, the
11 Permittees shall promptly submit such facts or corrected
12 information.
13

14 I.E.21. Reports, Notifications and Submissions

15
16 All written reports, notifications or other submissions
17 which are required by this Permit to be sent or given to the
18 Director or Department should be sent certified mail,
19 overnight express mail or hand delivered to:
20

21 Nuclear Waste Program
22 Regulatory and Technical Support Unit
23 Department of Ecology
24 300 Desmond Drive
25 Lacey, Washington 98503
26 Telephone: (206) 407-7132,
27

28 and

29
30 Department of Ecology
31 200 Area Section
32 1315 West Fourth Avenue
33 Kennewick, Washington 99336
34 Telephone: (509) 735-7581
35

36 Telephonic and oral reports/notifications need only be
37 provided to the Department's Kennewick Office.
38

39 These are the current phone numbers and addresses and may be
40 subject to change. The Department shall give the Permittees
41 written notice of a change in address or telephone number.
42 It is the responsibility of the Permittees to ensure any
43 required reports, notifications or other submissions are
44 transmitted to the addressee listed in this Condition.
45 However, the Permittees shall not be responsible for
46 ensuring verbal and written correspondence reaches a new
47 address or telephone number until after their receipt of the
48 Department's written notification.

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1 I.E.22.

2 **Annual Report**

3 The Permittees shall comply with the annual reporting
4 requirements of WAC 173-303-390(2)(a) through (e) and (g).

5
6 I.F.

7 **SIGNATORY REQUIREMENT**

8 All applications, reports, or information submitted to the
9 Department which require certification shall be signed and
10 certified in accordance with WAC 173-303-810(12) and (13).
11 All other reports required by this Permit and other
12 information requested by the Department shall be signed in
13 accordance with WAC 173-303-810(12).

14
15 I.G.

16 **CONFIDENTIAL INFORMATION**

17 The Permittees may claim confidential any information
18 required to be submitted by this Permit, at the time of
19 submission, in accordance with WAC 173-303-810(15).

20
21 I.H.

22 **DOCUMENTS TO BE MAINTAINED AT FACILITY SITE**

23 The Permittees shall maintain at the Facility, or some other
24 location approved by the Department, the following documents
25 and amendments, revisions, and modifications to these
26 documents:

- 27
- 28 1. This Permit and all attachments;
 - 29
 - 30 2. All dangerous waste Part B permit applications,
31 postclosure permit applications and closure plans;
32 and,
33
 - 34 3. The Facility Operating Record.
 - 35

36 These documents shall be maintained for ten (10) years after
37 postclosure care or corrective action for the Facility,
38 whichever is later, has been completed and certified as
39 complete.
40

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PART II - GENERAL FACILITY CONDITIONS

1
2
3
4 II.A. FACILITY CONTINGENCY PLAN

5
6 II.A.1. The Permittees shall immediately carry out the provisions of
7 the Contingency Plan as provided in Attachment 4, pursuant
8 to WAC 173-303-360(2), whenever there is a release of
9 dangerous waste or dangerous waste constituents, or other
10 emergency circumstance, either of which threatens human
11 health or the environment.

12
13 II.A.2. The Permittees shall comply with the requirements of WAC
14 173-303-350(4), as provided in the Hanford Facility
15 Contingency Plan (Attachment 4). The Hanford Facility
16 Contingency Plan contains reference to unit-specific
17 contingency plans included in Part III of this Permit.

18
19 II.A.3. The Permittees shall review and amend, if necessary, the
20 Hanford Facility Contingency Plan, as provided in Permit
21 Attachment 4, pursuant to WAC 173-303-350(5) and in
22 accordance with the provisions of WAC 173-303-830(4). The
23 plan shall be amended within a period of time agreed upon by
24 the Department.

25
26 II.A.4. The Permittees shall comply with the requirements of WAC
27 173-303-350(3) and -360(1) concerning the emergency
28 coordinator, except the names and home telephone numbers
29 will be on file with the Occurrence Notification Center,
30 phone number (509) 376-2900.

31
32 II.B. PREPAREDNESS AND PREVENTION

33
34 II.B.1. The Permittees shall equip the Facility with the equipment
35 specified in the Hanford Facility Contingency Plan
36 (Attachment 4) pursuant to WAC 173-303-340(1). Unit-
37 specific preparedness and prevention provisions are included
38 in Parts III and V of this Permit.

39
40 II.B.2. The Permittees shall test and maintain the equipment
41 specified in the previous condition as necessary to assure
42 proper operation in the event of emergency.

43
44 II.B.3. The Permittees shall maintain access to communications or
45 alarms pursuant to WAC 173-303-340(2), as provided in the
46 Hanford Facility Contingency Plan (Attachment 4) and unit-
47 specific contingency plans.
48

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1 II.B.4. The Permittees shall comply with WAC 173-303-340(4) and WAC
2 173-303-355(1) pertaining to arrangements with local
3 authorities.
4

5 II.C. PERSONNEL TRAINING
6

7 II.C.1. The Permittees shall conduct personnel training as required
8 by WAC 173-303-330. The Permittees shall maintain documents
9 in accordance with WAC 173-303-330(2) and (3). Training
10 records may be maintained in the Hanford Facility operating
11 record or on electronic data storage.
12

13 II.C.2. All Hanford Facility personnel shall receive general
14 Facility training within six months of hire. This training
15 shall provide personnel with orientation of dangerous waste
16 management activities being conducted on the Hanford
17 Facility. This training shall include:
18

19 II.C.2.a. Description of emergency signals and appropriate personnel
20 response,
21

22 II.C.2.b. Identification of contacts for information regarding
23 dangerous waste management activities,
24

25 II.C.2.c. Introduction to waste minimization concepts,
26

27 II.C.2.d. Identification of contact(s) for emergencies involving
28 dangerous waste, and
29

30 II.C.2.e. Familiarization with the Hanford Facility Contingency Plan.
31

32 II.C.3. Description of training plans for personnel assigned to TSD
33 units subject to this Permit are delineated in the unit-
34 specific chapters in Parts III or V of this Permit.
35

36 II.C.4. The Permittees shall provide the necessary training to non-
37 Facility personnel (i.e., visitors, sub-contractors) as
38 appropriate for the locations such personnel will be at and
39 the activities that will be undertaken. At a minimum, this
40 training shall describe dangerous waste management hazards
41 at the Facility.
42

43 II.D. WASTE ANALYSIS
44

45 II.D.1. All waste analyses required by this Permit shall be
46 conducted in accordance with a written waste analysis plan
47 (WAP) or sampling and analysis plan (SAP). Operating TSD
48 units shall have a WAP, which shall be approved through
49 incorporation of the TSD unit into Part III of this Permit.

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1 Closing TSD units shall have a SAP and, if necessary, a WAP
2 which shall be approved through incorporation of the TSD
3 unit into Part V of this Permit.
4

5 II.D.2. Until a WAP is implemented in accordance with Condition
6 II.D.1., any unit(s) identified in Parts III or V of this
7 Permit without a unit-specific waste analysis plan approved
8 by the Department shall not treat, store, or dispose of
9 dangerous waste, unless specified otherwise by the
10 Department in writing.
11

12 II.D.3. Each TSD unit WAP shall include:
13

- 14 i. The parameters for which each dangerous waste will be
15 analyzed, and the rationale for selecting these
16 parameters;
17
18 ii. The methods of obtaining or testing for these
19 parameters;
20
21 iii. The methods for obtaining representative samples of
22 wastes for analysis (representative sampling methods
23 are discussed in WAC 173-303-110(2);
24
25 iv. The frequency with which analysis of a waste will be
26 reviewed or repeated to ensure that the analysis is
27 accurate and current;
28
29 v. The waste analyses which generators have agreed to
30 supply;
31
32 vi. Where applicable, the methods for meeting the
33 additional waste analysis requirements for specific
34 waste management methods as specified in WAC 173-303-
35 630 through 173-303-670; and,
36
37 vii. For off-site facilities, the procedures for confirming
38 that each dangerous waste received matches the
39 identity of the waste specified on the accompanying
40 manifest or shipping paper. This includes at least:
41
42 (1) The procedure for identifying each waste
43 movement at the Facility; and,
44
45 (2) The method for obtaining a representative sample
46 of the waste to be identified, if the
47 identification method includes sampling.
48

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1 II.D.4 Should waste analysis be required by this Permit at a
2 location on the Facility other than at a TSD unit, a SAP
3 shall be maintained by the Permittees and made available
4 upon request from the Department. Any SAP required by this
5 Permit not associated with a particular TSD unit shall
6 include the elements of Conditions II.D.3.(i) through
7 II.D.3.(iv).
8

9 II.E. QUALITY ASSURANCE/QUALITY CONTROL

10
11 II.E.1. All WAPs and SAPs required by this Permit shall include a
12 quality assurance/quality control (QA/QC) plan or equivalent
13 to document all monitoring procedures so as to ensure that
14 all information, data, and resulting decisions are
15 technically sound, statistically valid, and properly
16 documented. Each QA/QC plan shall include, or contain a
17 reference to another document which will be used and
18 includes, the elements defined in Conditions II.E.2. and
19 II.E.3. The QA/QC plan may be part of a SAP, WAP, or
20 equivalent.
21

22 II.E.2. Each QA/QC plan shall contain a Data Quality Assurance Plan
23 which includes the following:
24

25 II.E.2.a. A Data Collection Strategy section including, but not be
26 limited to, the following:
27

- 28 i. A description of the intended uses for the data, and
29 the necessary level of precision and accuracy for
30 these intended uses; and,
31
32 ii. A description of methods and procedures to be used to
33 assess the precision, accuracy, and completeness of
34 the measurement data;
35

36 II.E.2.b. A Sampling section which shall include or describe and
37 reference or cite:
38

- 39 i. Sampling methods including the identification of
40 sampling equipment, a description of purging
41 procedures, and a description of decontamination
42 procedures to be used;
43
44 ii. Criteria for selecting appropriate sampling locations,
45 depths, etc., or identification and justification of
46 sample collection points and frequencies;
47
48 iii. Criteria for providing a statistically sufficient
49 number of samples as defined in EPA guidance or

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1 criteria for determining a technically sufficient
2 number of measurements to meet the needs of the
3 project as determined through the DQO planning
4 process;

- 5
6 iv. Methods for, or specification of, measuring all
7 necessary ancillary data;
- 8
9 v. Criteria for, or specification of, determining
10 conditions under which sampling should be conducted;
- 11
12 vi. Criteria for establishing, or specification of, which
13 parameters are to be measured at each sample
14 collection point and the frequency that each parameter
15 is to be measured;
- 16
17 vii. Criteria for, or specification of, identifying the
18 type of sampling (e.g., composites vs. grabs) and
19 number of samples to be collected;
- 20
21 viii. Criteria for, or specification of, measures to be
22 taken to prevent contamination of the sampling
23 equipment and cross contamination between sampling
24 points;
- 25
26 ix. Methods and documentation of field sampling operations
27 and procedure descriptions, as appropriate, including:
- 28
29 (1) Documentation of procedures for preparation of
30 reagents or supplies which become an integral
31 part of the sample (e.g., filters and absorbing
32 reagents);
- 33
34 (2) Procedure descriptions and forms for recording
35 the exact location, sampling conditions,
36 sampling equipment, and visual condition of
37 samples;
- 38
39 (3) Documentation of specific sample preservation
40 method;
- 41
42 (4) Calibration of field devices;
- 43
44 (5) Collection of replicate samples;
- 45
46 (6) Submission of field-biased blanks, where
47 appropriate;
- 48
9 (7) Potential interferences present at the facility;

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- (8) Field equipment listing and sample containers;
- (9) Sampling order; and,
- (10) Descriptions of decontamination procedures.
- x. Selection of appropriate sample containers, as applicable;
- xi. Sample preservation methods, as applicable; and,
- xii. Chain-of-custody procedure descriptions as applicable, including:
 - (1) Standardized field tracking reporting forms to establish sample custody in the field prior to and during shipment; and,
 - (2) Pre-prepared sample labels containing all information necessary for effective sample tracking, except where such information is generated in the field in which case blank spaces shall be provided on the pre-prepared sampling label.

II.E.2.c.

- Where applicable, a Field Measurements section which shall address:
- i. Selecting appropriate field measurement locations, depths, etc.;
 - ii. Providing a statistically sufficient number of field measurements as defined in EPA guidance or criteria for determining a technically sufficient number of measurements to meet the needs of the project as determined through the DQO process;
 - iii. Measuring all necessary ancillary data;
 - iv. Determining conditions under which field measurements should be conducted;
 - v. Determining which media are to be addressed by appropriate field measurements (e.g., ground water, air, soil, sediment, etc.);
 - vi. Determining which parameters are to be measured and where;

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vii. Selecting the frequency of field measurement and length of field measurements period; and,

viii. Documenting field measurement operations and procedures, including:

- (1) Descriptions of procedures and forms for recording raw data and the specific location, time, and sampling conditions;
- (2) Calibration of field devices;
- (3) Collection of replicate measurements;
- (4) Submission of field-biased blanks, where appropriate;
- (5) Potential interferences present at the facility;
- (6) Field equipment listing; and,
- (7) Descriptions of decontamination procedures.

II.E.2.d.

Where applicable, a Sample Analysis section which shall specify the following:

i. Chain-of-custody procedures, including:

- (1) Certification that all samples obtained for analysis will be delivered to a responsible person at the recipient laboratory who is authorized to sign for incoming field samples, obtain documents of shipment, and verify the data entered onto the sample custody records;
- (2) Provision for a laboratory sample custody log; and,
- (3) Specification of chain-of-custody procedures for sample handling, storage, and dispersment for analysis.

ii. Sample storage procedure descriptions and storage times;

iii. Sample preparation methods;

iv. Descriptions of analytical procedures, including:

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- (1) Scope and application of the procedure;
 - (2) Sample matrix;
 - (3) Potential interferences;
 - (4) Precision and accuracy of the methodology; and,
 - (5) Method detection limits.
- v. Descriptions of calibration procedures and frequency;
- vi. Data reduction, validation, and reporting;
- vii. Internal laboratory quality control checks, laboratory performance, and systems audits and frequency, including:
- (1) Method blank(s);
 - (2) Laboratory control sample(s);
 - (3) Calibration check sample(s);
 - (4) Replicate sample(s);
 - (5) Matrix-spiked sample(s);
 - (6) "Blind" quality control;
 - (7) Control charts;
 - (8) Surrogate samples;
 - (9) Zero and span gases; and,
 - (10) Reagent quality control checks.

II.E.3.

Each QA/QC plan shall include a Data Management Plan or equivalent, to document and track data and results. This plan shall identify and establish data documentation materials and procedures, project or unit file requirements, and project-related progress reporting procedures and documents. The storage location for the raw data shall be identified. The plan shall also provide the format to be used to record and, for projects, present the validated and unvalidated data and conclusions. The Data Management Plan shall include the following as applicable:

1 II.E.3.a.

A data record including the following:

- 2
- 3 i. Unique sample or field measurement code;
- 4
- 5 ii. Sampling or field measurement location including
- 6 surveyed horizontal coordinates and elevation of the
- 7 sample location, and sample or measurement type;
- 8
- 9 iii. Sampling or field measurement raw data;
- 10
- 11 iv. Laboratory analysis ID number;
- 12
- 13 v. Result of analysis (e.g., concentration);
- 14
- 15 vi. Elevations of reference points for all ground water
- 16 level measurements, including water level elevation,
- 17 top of casing elevation, and ground surface elevation;
- 18 and,
- 19
- 20 vii. Magnetic computer records of all ground water, soil,
- 21 surface water, and sediment analytical data.
- 22

23 II.E.3.b.

Tabular displays, as appropriate, illustrating:

- 24
- 25 i. Unsorted validated and unvalidated data;
- 26
- 27 ii. Results for each medium and each constituent
- 28 monitored;
- 29
- 30 iii. Data reduction for statistical analysis;
- 31
- 32 iv. Sorting of data by potential stratification factors
- 33 (e.g., location, soil layer, topography); and,
- 34
- 35 v. Summary data.
- 36

37 II.E.3.c.

Graphical displays (e.g., bar graphs, line graphs, area or
38 plan maps, isopleth plots, cross-sectional plots or
39 transects, three dimensional graphs, etc.), as appropriate,
40 presenting the following:

- 41
- 42 i. Displays of sampling location and sampling grid;
- 43
- 44 ii. Identification of boundaries of sampling area and
- 45 areas where more data are required;
- 46
- 47 iii. Displays of concentrations of contamination at each
- 48 sampling location;
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- iv. Displays of geographical extent of contamination;
- v. Areal and vertical displays of contamination concentrations, concentration averages, and concentration maxima, including isoconcentration maps for contaminants found in environmental media at the Facility;
- vi. Illustrations of changes in concentration in relation to distance from the source, time, depth, or other parameters;
- vii. Identification of features affecting intramedia transport and identification of potential receptors;
- viii. For each round of ground water level measurements, maps showing the distribution of head measurements in each aquifer; and,
- ix. For each well, provide a hydrograph that shows the distribution of water level measurements taken during the time interval of the investigation.

II.E.4.

Unless otherwise agreed upon in writing by the Department, the Permittees shall provide notification of availability to the Department of all data obtained pursuant to this Permit within 30 days of receipt by the Permittees, or after completion of QA/QC activities, if applicable. If the Department agrees that data will be obtained on a routine basis for a particular unit, the Permittees shall only be required to provide notification of data availability within 30 days of first availability along with a statement as to expected frequency of future data. If routine data is not acquired at the stated expected frequency, the Permittees shall notify the department within 30 days with an explanation and revision, if applicable. This notification requirement shall also apply to any other information obtained from activities conducted, or data obtained, that may influence activities pursuant to this Permit.

II.E.5.

The level of QA/QC for the collection, preservation, transportation, and analysis of each sample which is required for implementation of this Permit may be based upon Department approved data quality objectives for the sample. These data quality objectives shall be approved by the Department, in writing, or through incorporation of unit plans and permits into Parts III or V of this Permit.

1 II.F. GROUNDWATER AND VADOSE ZONE MONITORING

2
3 The Permittees shall comply with the groundwater monitoring
4 requirements of WAC 173-303-645. This Condition shall apply
5 only to those wells the Permittees use for the groundwater
6 monitoring programs applicable to the TSD units incorporated
7 into Parts III or V of this Permit. Where releases from TSD
8 units subject to this Permit have been documented or
9 confirmed by investigation, or where vadose zone monitoring
10 is proposed for integration with groundwater monitoring, the
11 Permittees shall evaluate the applicability of vadose zone
12 monitoring. The Permittees shall consult with the
13 Department regarding the implementation of these
14 requirements. If agreed to by the Department, integration
15 of groundwater and vadose zone monitoring for reasons other
16 than this Permit may be accommodated by this Permit.
17 Results from other investigation activities shall be used
18 whenever possible to supplement and/or replace sampling
19 required by this Permit.
20

21 II.F.1. Purgewater Management

22
23 Purgewater shall be handled in accordance with the
24 requirements set forth in Attachment 5, *Purgewater*
25 *Management Plan*.
26

27 II.F.2. Well Remediation and Abandonment

28
29 II.F.2.a. The Permittees shall inspect the integrity of active
30 resource protection wells as defined by WAC 173-160-030
31 subject to this Permit at least once every five (5) years.
32 These inspections shall be recorded in the Operating Record.
33 The Permittees shall prepare a plan and schedule within 120
34 days after the effective date of this Permit, specifying the
35 schedule and technical standards for this program. The
36 Permittees shall provide a copy of this plan upon the
37 request of the Department.
38

39 II.F.2.b. The Permittees shall evaluate resource protection wells
40 subject to this Permit according to Sections 4.1. through
41 4.8.3. of the Hanford Well Remediation and Decommissioning
42 Plan (Attachment 6) and the Policy on Remediation of
43 Existing Wells and Acceptance Criteria for RCRA and CERCLA,
44 June 1990 (Attachment 7) to determine if a well has a
45 potential use as a qualified well. The Permittees shall
46 abandon or remediate unusable wells according to the
47 requirements of Chapter 18.104 RCW, Chapter 173-160 WAC, and
48 Chapter 173-162 WAC to ensure that the integrity of wells

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1 subject to this Permit is maintained. The timeframe for
2 this remediation will be specified in Parts III or V of this
3 Permit.
4

5 II.F.2.c. The Department shall receive notice in writing at least 72
6 hours before the Permittees remediate (excluding maintenance
7 activities) or abandon any well subject to this Permit.
8

9 II.F.2.d. For wells subject to this Permit, the Permittees shall
10 achieve full compliance with Chapter 173-160 WAC and Chapter
11 18.104 RCW consistent with a rolling five (5) year schedule
12 agreed to by the Department and the Permittees. This
13 process shall be completed by the year 2012.
14

15 II.F.3. Well Construction
16

17 All wells constructed pursuant to this Permit shall be
18 constructed in compliance with Chapter 173-160 WAC.
19

20 II.G. SITING CRITERIA
21

22 The Permittees shall comply with the applicable notice of
23 intent and siting criteria of WAC 173-303-281 and WAC 173-
24 303-282, respectively.
25

26 II.H. RECORDKEEPING AND REPORTING
27

28 In addition to the recordkeeping and reporting requirements
29 specified elsewhere in this Permit, the Permittees shall
30 comply with the following:
31

32 II.H.1. Cost Estimate for Facility Closure
33

34 The Permittees shall submit an annual report updating
35 projections of anticipated costs for closure and postclosure
36 of TSD units incorporated into Parts III or V of this
37 Permit. This report will be submitted annually, by October
38 31, to the Department and reflect cost updates as of
39 September 30, of the past Fiscal Year.
40

41 II.H.2. Cost Estimate for Postclosure Monitoring and Maintenance
42

43 The Permittees shall submit an annual report updating
44 projects of anticipated costs for postclosure monitoring and
45 maintenance for TSD units incorporated into Parts III or V
46 of this Permit. This report will be submitted annually, by
47 October 31, to the Department and reflect cost updates as of
48 September 30, of the past Fiscal Year.
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1 II.H.3. The Permittees are exempt from the requirements of WAC 173-
2 303-620
3

4 II.I. FACILITY OPERATING RECORD
5

6 II.I.1. The Permittees shall maintain a written Facility Operating
7 Record until ten (10) years after postclosure or corrective
8 action is complete and certified for the Facility, whichever
9 is later. Except as specifically provided otherwise in this
10 Permit, the Permittees shall also record all information
11 referenced in this Permit in the Facility Operating Record
12 within seven (7) working days after the information becomes
13 available. A TSD unit-specific operating record shall be
14 maintained for each TSD unit at a location identified in
15 Parts III and V of this Permit. Each TSD unit-specific
16 operating record shall be included by reference in the
17 Facility Operating Record. Information required in each TSD
18 unit-specific operating record is identified on a unit-by-
19 unit basis in Part III or V of this Permit. The Facility
20 Operating Record shall include, but not be limited to, the
21 following information:
22

23 II.I.1.a. A description of the system(s) currently utilized to
24 identify and map solid waste management units and their
25 locations. The description of the system(s) is required to
26 include an identification of on-site access to the system's
27 data, and an on-site contact name and telephone number. In
28 addition to, or as part of, this system(s), the Permittees
29 shall also maintain a list identifying active 90-day waste
30 storage areas and dangerous waste satellite accumulation
31 areas and their locations. The list shall identify the
32 location, the predominant waste types managed at the area,
33 and a date identifying when the list was compiled. Maps
34 shall be provided by the Permittees upon request by the
35 Department;
36

37 II.I.1.b. Records and results of waste analyses required by WAC 173-
38 303-300;
39

40 II.I.1.c. An identification of the system(s) currently utilized to
41 generate Occurrence Reports. The identification of the
42 system(s) is required to include a description, an
43 identification of an on-site location of hard-copy
44 Occurrence Reports, an identification of on-site access to
45 the system's data, and an on-site contact name and telephone
46 number;
47

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- 1 II.I.1.d. Copies of all unmanifested waste reports;
2
3 II.I.1.e. Hanford Facility Contingency Plan as well as summary reports
4 and details of all incidents that require implementing the
5 Contingency Plan, as specified in WAC 173-303-360(2)(k);
6
7 II.I.1.f. An identification of the system(s) currently utilized and
8 being developed to record personnel training records and to
9 develop training plans. The identification of the system(s)
10 is required to include a description, an identification of
11 on-site access to the system's data, and an on-site contact
12 name and telephone number;
13
14 II.I.1.g. Preparedness and prevention arrangements made pursuant to
15 WAC 173-303-340(4) and documentation of refusal by state or
16 local authorities that have declined to enter into
17 agreements in accordance with WAC 173-303-340(5);
18
19 II.I.1.h. [Reserved]
20
21 II.I.1.i. An identification and description of the report containing
22 closure and postclosure cost estimates required by
23 Conditions II.H.1. and II.H.2. The identification shall
24 provide the on-site location and document number of the
25 report;
26
27 II.I.1.j. Documentation (e.g. waste profile sheets) of all dangerous
28 waste transported to or from any TSD unit subject to this
29 Permit. This documentation shall be maintained in the
30 receiving unit's operating record from the time the waste is
31 received;
32
33 II.I.1.k. An identification of the system(s) currently utilized to
34 cross-reference waste locations to specific manifest
35 document numbers. The identification of the system(s) is
36 required to include a thorough description, an
37 identification of an on-site location of a hard-copy data
38 report, an identification of on-site access to the system's
39 data, and an on-site contact name and telephone number;
40
41 II.I.1.l. [Reserved]
42
43 II.I.1.m. Annual Reports required by this Permit;
44
45 II.I.1.n. An identification of all systems currently utilized to
46 record monitoring information, including all calibration and
47 maintenance records, and all original strip chart recordings
48

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1 for continuous monitoring instrumentation. The
2 identification of systems shall include a description of the
3 systems. The descriptions shall include a confirmation that
4 the criteria of Condition I.E.10.e. is provided by the
5 utilization of the system. The identification of the
6 systems shall also include an identification of on-site
7 access to the system's data, an on-site contact name and
8 telephone number;

9
10 II.I.1.o. [Reserved]

11
12 II.I.1.p. Summaries of all records of groundwater corrective action
13 required by WC 173-303-645;

14
15 II.I.1.q. An identification of the system(s) currently being utilized
16 and being developed to evaluate compliance with the
17 Conditions of this Permit and with Chapter 173-303 WAC. The
18 identification of the system(s) shall include a description
19 of the system(s), an identification of on-site access to the
20 system's data, and an on-site contact name and telephone
21 number. The description of the system(s) shall also include
22 a definition of which portion(s) of the system(s) are
23 accessible to the Department;

24
25 II.I.1.r. All deed notifications required by this Permit (to be
26 included by reference);

27
28 II.I.1.s. All inspection reports required by this Permit; and,

29
30 II.I.1.t. All other reports as required by this Permit, including ECNs
31 and NCRs.

32
33 II.I.2. The descriptions of systems and/or reports required in
34 Conditions II.I.1.a., II.I.1.c., II.I.1.f., II.I.1.i.,
35 II.I.1.k., II.I.1.n., and II.I.1.q., shall be placed in the
36 Facility Operating Record within twelve months of the
37 effective date of this Permit.

38
39 II.J. FACILITY CLOSURE

40
41 II.J.1. Final closure of the Hanford Facility will be achieved when
42 closure activities for all TSD units have been completed, as
43 specified in Parts III, IV, or V of this Permit. Completion
44 of these activities shall be documented using either
45 certifications of closure, in accordance with WAC 173-303-
46 610(6), or certifications of completion of postclosure care,
47 in accordance with WAC 173-303-610(11).
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- 1 II.J.2. The Permittees shall close all TSD units as specified in
2 Parts III or V of this Permit.
3
- 4 II.J.3. The Permittees shall submit a written notification of or
5 request for a permit modification in accordance with the
6 provisions of WAC 173-303-610(3)(b) whenever there is a
7 change in operating plans, facility design, or the approved
8 closure plan. The written notification or request must
9 include a copy of the amended closure plan for review or
10 approval by the Department.
11
- 12 II.J.4. The Permittees shall close the Facility in a manner that:
13
- 14 II.J.4.a Minimizes the need for further maintenance;
15
- 16 II.J.4.b. Controls, minimizes or eliminates to the extent necessary to
17 protect human health and the environment, postclosure escape
18 of dangerous waste, dangerous constituents, leachate,
19 contaminated run-off, or dangerous waste decomposition
20 products to the ground, surface water, ground water, or the
21 atmosphere; and,
22
- 23 II.J.4.c. Returns the land to the appearance and use of surrounding
24 land areas to the degree possible given the nature of the
25 previous dangerous waste activity.
26
- 27 II.J.4.d. Meets the requirements of WAC 173-303-610(2)(b).
28
- 29 II.K. SOIL/GROUNDWATER CLOSURE PERFORMANCE STANDARDS
30
- 31 II.K.1. For purposes of Condition II.K., the term "clean closure"
32 shall mean the status of a TSD unit at the Facility which
33 has been closed to the cleanup levels prescribed by WAC 173-
34 303-610(2)(b) provided certification of such closure has
35 been accepted by Ecology.
36
- 37 II.K.2. The Permittees may close a TSD unit to background levels as
38 defined in Department approved Hanford Site Background
39 Documents if background concentrations exceed the levels
40 prescribed by Condition II.K.1. Closure to these levels,
41 provided the Permittees comply with all other closure
42 requirements for a TSD unit as identified in Parts III or V
43 of this Permit, shall be deemed as "clean closure."
44
- 45 II.K.3. Except for those TSD units identified in Conditions II.K.1.,
46 II.K.2., or II.K.4., the Permittees may close a TSD unit to
47 a cleanup level specified under Method C of Chapter 173-340
48 WAC. Closure of a TSD unit to these levels, provided the
49 Permittees comply with all other closure requirements for

1 the TSD unit as specified in Parts III or V of the Permit,
2 and provided the Permittees comply with Conditions II.K.3.a.
3 through II.K.3.c., shall be deemed as a "modified closure."

4
5 II.K.3.a.

6 For "modified closures," the Permittees shall provide
7 institutional controls in accordance with WAC 173-340-440
8 which restricts access to the TSD unit for a minimum of five
9 (5) years following completion of closure. The specific
10 details and duration of institutional controls shall be
11 specified in Parts III or V of this Permit for a particular
12 TSD unit.

13 II.K.3.b.

14 For "modified closures", the Permittees shall provide
15 periodic assessments of the TSD unit to determine the
16 effectiveness of the closure. The specific details of the
17 periodic assessments shall be specified in Parts III or V of
18 this Permit. The periodic assessments shall include, as a
19 minimum, a compliance monitoring plan in accordance with WAC
20 173-340-410 that will address the assessment requirements on
21 a unit by unit basis. At least one (1) assessment activity
22 shall take place after a period of five (5) years from the
23 completion of closure, which will demonstrate whether the
24 soils and groundwater have been maintained at or below the
25 allowed concentrations as specified in Parts III or V of
26 this Permit. Should the required assessment activities
27 identify contamination above the allowable limits as
28 specified in Parts III or V, the TSD unit must be further
29 remediated or the requirements of II.K.4. must be followed.
30 Should the required assessment activities demonstrate that
31 contamination has diminished or remained the same, the
32 Permittees may request that the Department reduce or
33 eliminate the assessment activities and/or institutional
34 controls.

35 II.K.3.c.

36 For "modified closures", the Permittees shall specify the
37 specific activities required by this Condition in a
38 postclosure permit application.

39 II.K.4.

40 For any TSD unit which Conditions II.K.1., II.K.2., or
41 II.K.3., are not chosen as the closure option, closing the
42 TSD unit as a landfill may be selected. Closure and
43 postclosure of the TSD unit as a landfill must follow the
44 procedures and requirements specified in WAC 173-303-610.

45 II.K.5.

46 The cleanup option selected shall be specified in Parts III
47 or V of this Permit and shall be chosen with consideration
48 of the potential future site use for that TSD unit/area.
Definitions contained within Chapter 173-340 WAC shall apply

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to Condition II.K. where definitions are not otherwise provided by this Permit, the FFACO, or Chapter 173-303 WAC.

II.K.6. Deviations from a TSD unit closure plan required by unforeseen circumstances encountered during closure activities which do not impact the overall closure strategy but provide equivalent results shall be documented in the TSD unit-specific operating record and made available to the Department upon request or during the course of an inspection.

II.K.7. Where agreed to by the Department, integration of other statutorily or regulatory mandated cleanups may be accommodated by this Permit. Results from other cleanup investigation activities shall be used whenever possible to supplement and/or replace TSD unit closure investigation activities. All, or appropriate parts of, multipurpose cleanup and closure documents can be incorporated into this Permit through the Permit modification process. Cleanup and closures conducted under any statutory authority with oversight by either the Department or the Agency which meets the equivalent of the technical requirements of Conditions II.K.1. through II.K.4. may be considered as satisfying the requirements of this Permit.

II.L. DESIGN AND OPERATION OF THE FACILITY

II.L.1. Proper Design and Construction

The Permittees shall design, construct, maintain, and operate the Facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous substances to air, soil, ground water, or surface water which could threaten human health or the environment.

II.L.2. Design Changes, Nonconformance, and As-Built Drawings

II.L.2.a. The Permittees shall conduct all construction subject to this Permit in accordance with the approved designs, plans and specifications that are required by this Permit unless authorized otherwise in Conditions II.L.2.b. or II.L.2.c. For purposes of Conditions II.L.2.b. and II.L.2.c., a Department construction inspector or TSD unit manager are designated representatives of the Department.

II.L.2.b. During construction of a project subject to this Permit, changes to the approved designs, plans and specifications shall be formally documented with an Engineering Change Notice (ECN). All ECNs shall be maintained in the TSD unit-

1 specific operating record and shall be made available to the
2 Department upon request or during the course of an
3 inspection. The Permittees shall provide copies of ECNs
4 affecting any critical system to the Department within five
5 (5) working days of initiating the ECN. Identification of
6 critical systems shall be included by the Permittees in each
7 TSD unit-specific dangerous waste permit application,
8 closure plan or Permit modification, as appropriate. The
9 Department will review an ECN modifying a critical system
10 and inform the Permittees within two (2) working days in
11 writing whether the proposed ECN, when issued, will require
12 a Class 1, 2, or 3 permit modification. If after two (2)
13 working days the Department has not responded, it will be
14 deemed as acceptance of the ECN by the Department.
15

16 II.L.2.c.

17 During construction of a project subject to this Permit, any
18 work completed which does not meet or exceed the standards
19 of the approved design, plans and specifications shall be
20 formally documented with a nonconformance report (NCR). All
21 NCRs shall be maintained in the TSD unit-specific operating
22 record and shall be made available to the Department upon
23 request or during the course of an inspection. The
24 Permittees shall provide copies of NCRs affecting any
25 critical system to the Department within five (5) working
26 days after identification of the nonconformance. The
27 Department will review an NCR affecting a critical system
28 and inform the Permittees within two (2) working days in
29 writing whether a permit modification is required of any
30 nonconformance and whether prior approval is required from
31 the Department before work proceeds which affects the
32 nonconforming item. If the Department does not respond
33 within two (2) working days, it will be deemed as acceptance
34 and no permit modification is required.

35 II.L.2.d.

36 Upon completion of a construction project subject to this
37 Permit, the Permittees shall produce as-built drawings of
38 the project which incorporate the design and construction
39 modifications resulting from all project ECNs and NCRs as
40 well as modifications made pursuant to WAC 173-303-830. The
41 Permittees shall place the drawings into the operating
42 record within 12 months of completing construction, or
43 within an alternate period of time specified in a unit-
44 specific Condition in Part III or V of this Permit.

45 II.L.3.

46 Facility Compliance

47 The Permittees in receiving, storing, transferring,
48 handling, treating, processing, and disposing of dangerous
49 waste shall design, operate and/or maintain the Facility in
9

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1 compliance with all applicable federal, state and local laws
2 and regulations.

3
4 II.M. SECURITY

5
6 The Permittees shall comply with the security provisions of
7 WAC 173-303-310. The Permittees may comply with the
8 requirements of WAC 173-303-310(2) on a unit-by-unit basis.

9
10 II.N. RECEIPT OF DANGEROUS WASTES GENERATED OFF-SITE

11
12 II.N.1. Receipt of Off-Site Waste

13
14 The Permittees shall comply with Conditions II.N.2. and
15 II.N.3. for any dangerous wastes which are received from
16 either sources outside the United States or from off-site
17 generators.

18
19 II.N.2. Waste From Sources Outside the United States

20
21 The Permittees shall meet the requirements of WAC 173-303-
22 290(1) for waste received from outside the United States.

23
24 II.N.3. Notice to Generator

25
26 For waste received from off-site sources (except where the
27 owner/operator is also the generator), the Permittees shall
28 inform the generator in writing that they have the
29 appropriate permits for, and will accept, the waste the
30 generator is shipping, as required by WAC 173-303-290(3).
31 The Permittees shall keep a copy of this written notice as
32 part of the TSD unit-specific operating record.

33
34 II.O. GENERAL INSPECTION REQUIREMENTS

35
36 II.O.1. The Permittees shall inspect the Facility to prevent
37 malfunctions and deterioration, operator errors, and
38 discharges which may cause or lead to the release of
39 dangerous waste constituents to the environment, or a threat
40 to human health. Inspections must be conducted in
41 accordance with the provisions of WAC 173-303-320(2). In
42 addition to the TSD unit inspections specified in Parts III
43 or V, the following inspections will also be conducted.

44
45 II.O.1.a. The 100, 200 East, 200 West, 300, 400, and 1100 areas shall
46 be inspected annually.

47
48 II.O.1.b. The Permittees shall inspect the banks of the Columbia
49 River, contained within the Facility boundary, two (2) times

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1 yearly. One (1) inspection shall occur at the low water
2 mark of the year and one (1) inspection shall occur at a
3 time chosen by the Permittees. These inspections shall be
4 performed from the river by boat, and the inspectors shall
5 follow the criteria in Condition II.O.1.c.
6

7 II.O.1.c.

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

- 14 i. Remains of waste containers, labels or other waste
15 management equipment;
16
17 ii. Solid waste disposal sites not previously identified
18 for remedial action;
19
20 iii. Uncontrolled waste containers (e.g., orphan drums);
21
22 iv. Temporary or permanent activities that could generate
23 an uncontrolled waste form; and,
24
25 v. Unpermitted waste discharges.
26

27 II.O.1.d.

28 The Permittees shall notify the Department at least seven
29 (7) days prior to conducting these inspections in order to
30 allow representatives of the Department to be present during
31 the inspections.

32 II.O.2.

33 If the inspection by the Permittees conducted pursuant to
34 Condition II.O.1. reveals any problems, the Permittees shall
35 take remedial action on a schedule agreed to by the
36 Department.

37 II.O.3.

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

41 II.P.

MANIFEST SYSTEM

42 II.P.1.

43 The Permittees shall comply with the manifest requirements
44 of WAC 173-303-370 for waste received from off-site and WAC
45 173-303-180 for waste shipped off-site.
46

47 II.P.2.

48 Transportation of dangerous wastes along State Highways 240,
49 24, and 243, and Route 4 South (Stevens Drive) south of the
Wye Barricade, if such routes are not closed to general

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1 public access at the time of shipment, shall be manifested
2 pursuant to Condition II.P.1.
3

4 II.Q. ON-SITE TRANSPORTATION

5
6 II.Q.1. Documentation must accompany any on-site dangerous waste
7 which is transported to or from any TSD unit subject to this
8 Permit through or within the 600 Area, unless the roadway is
9 closed to general public access at the time of shipment.
10 Waste transported by rail or by pipeline is exempt from this
11 Condition. This documentation shall include the following
12 information, unless other unit-specified provisions are
13 designated in Part III or V.
14

15 II.Q.1.a. Generator's name, location and telephone number;

16
17 II.Q.1.b. Receiving TSD unit's name, location, and telephone number;

18
19 II.Q.1.c. Description of waste;

20
21 II.Q.1.d. Number and type of containers;

22
23 II.Q.1.e. Total quantity of waste;

24
25 II.Q.1.f. Unit volume/weight;

26
27 II.Q.1.g. Dangerous waste number(s); and,

28
29 II.Q.1.h. Any special handling instructions.
30

31 II.Q.2. All non-containerized solid, dangerous waste transported to
32 or from TSD units subject to this Permit shall be covered to
33 minimize the potential for material to escape during
34 transport.
35

36 II.R. EQUIVALENT MATERIALS

37
38 II.R.1. The Permittees may substitute an equivalent or superior
39 product for any equipment or materials specified in this
40 Permit. Use of equivalent or superior products shall not be
41 considered a modification of this Permit. A substitution
42 will not be considered equivalent unless it is at least as
43 effective as the original equipment or materials in
44 protecting human health and the environment.
45

46 II.R.2. The Permittees shall place in the operating record (within
47 seven (7) days after the change is put into effect) the
48 substitution documentation, accompanied by a narrative
49 explanation, and the date the substitution became effective.

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The Department may judge the soundness of the substitution.

II.R.3.

If the Department determines that a substitution was not equivalent to the original, it will notify the permittees that the Permittees' claim of equivalency has been denied, of the reasons for the denial, and that the original material or equipment must be used. If the product substitution is denied, the Permittees shall comply with the original approved product specification or find an acceptable substitution.

II.S.

LAND DISPOSAL RESTRICTIONS

Unless specifically identified otherwise in the FFACO, the Permittees shall comply with all Land Disposal Restriction requirements as set forth in WAC 173-303-140.

II.T.

ACCESS AND INFORMATION

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

II.U.

MAPPING OF UNDERGROUND PIPING

II.U.1.

Within 24 months of the effective date of the Permit, the Permittees shall submit a report to the Department which describes the procedures proposed to be used to compile the information required by Conditions II.U.2., II.U.3., and II.U.4. The report shall describe the methods which will be used to retrieve the piping information, the estimated accuracy of the data to be provided, quality assurance and/or quality control techniques to be employed including field verification activities (i.e., surveying, ground penetrating radar, etc.) to support information gathered from existing drawings, and conceptual examples of the product which will be submitted.

II.U.2.

Within 36 months of the effective date of this Permit, the Permittees shall make an initial submittal to the Department of maps showing the location of dangerous waste underground pipelines (including active, inactive, and abandoned pipelines which contain or contained dangerous waste subject to the provisions of Chapter 173-303 WAC) on the Facility which are located outside of the fences enclosing the 200 East, 200 West, 300, 400, 100N, and 100K Areas. These maps shall identify the origin, destination, size, depth and type (i.e., reinforced concrete, stainless steel, cast iron,

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1 etc.) of each pipe and the location of their diversion
2 boxes, valve pits, seal pots, catch tanks, receiver tanks,
3 and pumps, utilizing Washington State Plane Coordinates, NAD
4 83(91), meters. If the type of pipe material is not
5 documented on existing drawings, the most probable material
6 type shall be provided. These maps shall be accompanied by
7 a description of the quality assurance and quality control
8 measures used to compile the maps.
9

10 The age of all pipes required to be identified pursuant to
11 this Condition shall be documented in an attachment to the
12 submittal. If the age cannot be documented, an estimate of
13 the age of the pipe shall be provided based upon best
14 engineering judgement.
15

16 These maps, and any attachments, shall be maintained in the
17 Facility Operating Record and updated annually after the
18 initial submittal with new or revised information. Each map
19 submittal required by this Condition shall incorporate
20 information available six months before the scheduled
21 submittal date.
22

23 II.U.3.

24 Within 48 months of the effective date of this Permit, the
25 Permittees shall make an initial submittal to the Department
26 of piping schematics for dangerous waste underground
27 pipelines (including active, inactive, and abandoned
28 pipelines which contain or contained dangerous waste subject
29 to the provisions of Chapter 173-303 WAC) within the 200
30 East, 200 West, 300, 400, 100N, and 100K Areas. The piping
31 schematics shall identify the origin, destination, and
32 direction of flow for each pipe, as well as whether the pipe
33 is active, inactive, or abandoned. These schematics need
34 not include the pipes within a fenced tank farm or within a
35 building/structure. These schematics shall be accompanied
36 by a description of the quality assurance and quality
37 control measures used to compile the maps.
38

39 These schematics and any attachments, shall be maintained in
40 the Facility Operating Record and updated annually after the
41 initial submittal with new or revised information. Each map
42 submittal required by this Condition shall incorporate
43 information available six months before the scheduled
44 submittal date.
45

46 II.U.4.

47 Within 48 months of the effective date of this Permit, the
48 Permittees shall make an initial submittal to the Department
49 of maps showing the location of dangerous waste underground
pipelines (including active, inactive, and abandoned
pipelines which contain or contained dangerous waste subject

1 to the provisions of Chapter 173-303 WAC) within the 200
2 East, 200 West, 300, 400, 100N, and 100K Areas. These maps
3 will incorporate information available six months prior to
4 the scheduled submittal date. Thereafter, the maps will be
5 updated on an annual basis to incorporate additional
6 information, as such information becomes available in
7 accordance with the FFACO milestone schedule. A schedule
8 for the provision of map input shall be included in the
9 report specified in Condition II.U.1.

10
11 The maps shall identify the origin, destination, size, depth
12 and type (i.e., reinforced concrete, stainless steel, cast
13 iron, etc.) of each pipe and the location of their diversion
14 boxes, valve pits, seal pots, catch tanks, receiver tanks,
15 and pumps, and utilize Washington State Plan Coordinates,
16 NAD 83(91), meters. If the type of pipe material is not
17 documented on existing drawings, the most probable material
18 type shall be provided. These maps need not include the
19 pipes within a fenced tank farm or within a
20 building/structure. These maps shall be accompanied by a
21 description of the quality assurance/quality control used to
22 compile the maps.

23
24 The age of all pipes required to be identified pursuant to
25 this Condition shall be documented in an attachment to the
26 submittal. If the age cannot be documented, an estimate of
27 the age of the pipe shall be provided based upon best
28 engineering judgement.

29
30 These maps, and any attachments, shall be maintained in the
31 Facility Wide Operating Record and updated annually after
32 the initial submittal with new or revised information.

33
34 II.V.

MARKING OF UNDERGROUND PIPING

35
36 Within 36 months of the effective date of this Permit, the
37 Permittees shall mark the underground pipelines identified
38 in Condition II.U.2. These pipelines shall be marked at the
39 point they pass beneath a fence enclosing the 200 East, 200
40 West, 300, 400, 100N or 100K Areas, at their origin and
41 destination, at any point they cross an improved road and
42 every 100 meters along the pipeline corridor where
43 practicable. The markers shall be labeled with a sign that
44 reads "Buried Dangerous Waste Pipe" and shall be visible
45 from a distance of 15 meters.
46
47

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1 II.W. OTHER PERMITS AND/OR APPROVALS

2
3 II.W.1. The Permittees shall be responsible for obtaining all other
4 applicable federal, state, and local permits authorizing the
5 development and operation of the Facility. To the extent
6 that work required by this Permit must be done under a
7 permit and/or approval pursuant to other regulatory
8 authority, the Permittees shall use their best efforts to
9 obtain such permits. Copies of all documents relating to
10 actions taken, pursuant to this Condition, shall be kept in
11 the operating record.

12
13 II.W.2. All other permits related to dangerous waste management
14 activities are severable and enforceable through the
15 permitting authority under which they are issued.

16
17 II.W.3. All air emissions from TSD units subject to this Permit
18 shall comply with all applicable State and Federal
19 regulations pertaining to air emission controls, including
20 but not limited to, Chapter 173-400 WAC, General Regulations
21 for Air Pollution Sources; Chapter 173-460 WAC, Controls for
22 New Sources of Toxic Air Pollutants; and Chapter 173-480
23 WAC, Ambient Air Quality Standards and Emission Limits for
24 Radionuclides.

25
26 II.X. SCHEDULE EXTENSIONS

27
28 II.X.1 The Permittees shall notify the Department in writing as
29 soon as possible of any deviations or expected deviations
30 from the schedules of this Permit. The Permittees shall
31 include with the notification all information supporting
32 their claim that they have used best efforts to meet the
33 required schedules. If the Department determines that the
34 Permittees have made best efforts to meet the schedules of
35 this Permit, the Department shall notify the Permittees in
36 writing by certified mail that the Permittees have been
37 granted an extension. Such an extension shall not require a
38 permit modification under Condition I.C.3. Should the
39 Department determine that the Permittees have not made best
40 efforts to meet the schedules of this Permit, the Department
41 may take such action as deemed necessary.

42
43 Copies of all correspondence regarding schedule extensions
44 shall be kept in the operating record.

45
46 II.X.2 Any schedule extension granted through the approved change
47 control process identified in the FFACO shall be
48 incorporated into this Permit. Such a revision shall not
49 require a Permit modification under Condition I.C.3.

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PART III - UNIT-SPECIFIC CONDITIONS FOR FINAL STATUS OPERATIONS

CHAPTER 1

616 Nonradioactive Dangerous Waste Storage Facility

The 616 Nonradioactive Dangerous Waste Storage Facility (NRDWSF) is an active storage unit for dangerous wastes that are shipped to off-site commercial treatment or disposal facilities. This Chapter sets forth the operating Conditions for this TSD unit.

III.1.A. COMPLIANCE WITH APPROVED PERMIT APPLICATION

The Permittees shall comply with all the requirements set forth in the 616 Nonradioactive Dangerous Waste Storage Facility Permit Application, Rev. 2, as found in Attachment 8, including the amendments specified in Condition III.1.B. Enforceable portions of the application are listed below (All subsections, figures, and tables included in these portions are also enforceable unless stated otherwise):

Part A Application

- Section 2.1.3 The 616 Non-radioactive Dangerous Waste Storage Facility Description
- Section 2.2 Topographic Maps
- Section 2.5 Performance Standards
- Section 2.7.1 Spills and Discharges Into the Environment
- Section 2.8 Manifest System
- Chapter 3.0 Waste Characteristics
- Chapter 4.0 Process Information
- Chapter 6.0 Procedures to Prevent Hazards
- Chapter 7.0 Contingency Plan
- Chapter 8.0 Personnel Training
- Chapter 11.0 Closure and Post-Closure Requirements
- Chapter 12.0 Reporting and Recordkeeping
- Section 13.7 Toxic Substance Control Act of 1976

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Section 13.8 Other Requirements

Appendix 2A Drawing H-13-000014, 616 NRDWSF
Topographic Map

Appendix 4B Drawing H-6-1553, Architectural Plan,
Elevations and Sections, Rev. 3

Appendix 4B Drawing H-6-1556, Structural Plan and
Sections, Rev. 2

Appendix 7A Building Emergency Plan - 616 Building

Appendix 11B Description of Procedures

III.1.B. AMENDMENTS TO THE APPROVED PERMIT APPLICATION

III.1.B.a. Page 2-7, line 25. The words "can be" are changed to "shall be."

III.1.B.b. Page 2-16, line 45. An additional bullet is added to the text which reads as follows: "In addition, all reporting requirements identified in Conditions I.E.15. through I.E.22. of this Permit shall be complied with."

III.1.B.c. Page 2-17, line 24. The word "voluntarily" is deleted from the text.

III.1.B.d. Page 2-17, line 26. The words "information on" is changed to "requirements for."

III.1.B.e. Page 3-6, line 44. The term "Table 3-3" is deleted and replaced with "Sections 3.2.2 through 3.2.4 and 3.2.6".

III.1.B.f. Page 3-7, lines 8-11. These lines are deleted and replaced with the following:

Prior to acceptance of wastes at 616 NRDWSF, confirmation of designation may be required by solid Waste Engineering (Section 3.2.4). The Wastes which shall undergo confirmation of designation are identified in Condition III.1.B.n. of this Permit and may be divided into two groups; those that easily yield a representative sample (Category I), and those that do not (Category II). The steps for each type are outlined below along with a description of which wastes fall into each category:

Category I. If a waste which easily yields a representative sample is received a representative sample will be taken of

1 the waste. If more than one phase is present, each phase
2 must be tested individually. The following field tests will
3 be performed:
4

- 5 * Reactivity - HAZCATTM oxidizer, cyanide, and sulfide
6 tests. These tests will not be performed on materials
7 known to be organic peroxides, ethers, and/or water
8 reactive compounds.
9
- 10 * Flashpoint/explosivity - by HAZCATTM flammability
11 procedure B, explosive atmosphere meter¹, or a closed
12 cup flashpoint measurement instrument¹.
13
- 14 * pH - by pH meter¹ or pH paper (SW-846-9041).² This
15 test will not be performed on non-aqueous materials.
16
- 17 * Halogenated organic compounds - by Chlor-D-TectTM
18 kits.
19
- 20 * Volatile organic compounds - by photo or flame
21 ionization tester¹, by gas chromatography with or
22 without mass spectrometry, or by melting point and/or
23 boiling point determination.
24

25 ¹These instruments are field calibrated or checked for
26 accuracy daily when in use.
27

28 ²The pH paper must have a distinct color change every 0.5 pH
29 unit and each batch of paper must be calibrated against
30 certified pH buffers or by comparison with a pH meter
31 calibrated with certified pH buffers.
32

33 If the waste meets the parameters specified in its
34 documentation, within a 10% tolerance, confirmation of
35 designation is complete. If it does not meet these
36 parameters, sample and analyze the materials in accordance
37 with WAC 173-303-110. See Table 3-4 for a list of
38 analytical methodologies and Table 3-5 for sampling
39 methodologies. This is considered a significant error under
40 Section 3.2.4. Re-assess and re-designate the waste.
41 Repackage and label as necessary or return to the generating
42 unit.
43

44 When mathematically possible, the Permittees shall perform
45 confirmation on an equal number of Category I and Category
46 II containers.
47

48 Category II. If a representative sample is not easily
49 obtained (for example, discarded machinery or shop rags) or

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1 if the waste is a labpack or discarded laboratory reagent
2 container, the following steps will be performed:
3

- 4 a. Visually verify the waste. Labpacks and combination
5 packages must be removed from the outer container. If
6 the waste meets the parameters specified in its
7 documentation, confirmation of designation is
8 complete. If it does not meet these parameters,
9 proceed to the next step. This is considered a
10 significant error under Section 3.2.4.
11
12 b. If possible and necessary, segregate/repackage the
13 waste for shipment in a compliant manner. If the
14 waste is not packaged in compliance with shipping
15 requirements, proceed to the next step.
16
17 c. The waste must be re-designated using designation
18 methods identified in WAC 173-303-070 through 173-303-
19 100."
20

21 III.1.B.g. Page 3-7, line 17. The following line is added: "Petitions
22 to use an alternate test method shall be submitted in
23 accordance with WAC 173-303-910."
24

25 III.1.B.h. Page 3-7, line 18. The following paragraph is added: "All
26 analytical tests performed to fulfill the requirements of
27 Sections 3.2.4 and 4.1.1.8 (Frequency of Analysis and
28 Removal of Liquids from Containment System, respectively)
29 shall be performed in accordance with WAC 173-303-110. New
30 test methods shall be used within 90 days of the effective
31 date of the State regulations or laws that mandate the use
32 of the test method. To ensure analytical quality control,
33 all analyses must fulfill, at a minimum, the quality
34 procedures specified in SW-846 Volume II."
35

36 III.1.B.i. Page 3-7, line 33. The words "is adequate" are deleted and
37 replaced with "must be adequate."
38

39 III.1.B.j. Page 3-7, line 35. The words "is performed" are deleted and
40 replaced with "must be performed."
41

42 III.1.B.k. Page 3-7, line 40. The word "representative" is inserted
43 between the words "obtaining" and "samples."
44

45 III.1.B.l. Page 3-8, line 1. The following sentence is inserted before
46 the word "Appropriate": "To ensure sample quality control,
47 all sampling efforts must, at a minimum, be in accordance
48 with the procedures specified in WAC 173-303-110."
49

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- 1 III.1.B.m. Page 3-8, line 1. "Appropriate preservation" is deleted and
2 replaced with "Appropriate packaging and preservation."
3
4 III.1.B.n. Page 3-8, line 8. The following paragraph is added:
5
6 "At least five percent (5%) of the waste containers stored
7 at 616 NRDWSF during a Federal fiscal year (October 1
8 through September 30) will undergo confirmation of
9 designation pursuant to Sections 3.2.2 and 3.2.3 (Test
10 Methods and Sampling Methods, respectively). The number of
11 containers to meet the five percent (5%) requirement is the
12 average of containers for the previous three months. For
13 example, if 200 containers are received in January, 180 in
14 February, and 220 in March then 10 containers of inbound
15 waste must undergo confirmation of designation in April.
16 All generating units which ship more than twenty (20)
17 containers through 616 NRDWSF in a fiscal year will have at
18 least one (1) container sampled and analyzed. Containers
19 for which there is insufficient process knowledge or
20 analytical information to designate without sampling and
21 analysis may not be counted as part of the five percent (5%)
22 requirement unless there is additional confirmation of
23 designation independent of the generator designation. The
24 generating unit's staff shall not select the waste
25 containers to be sampled and analyzed other than identifying
26 containers for which insufficient information is available
27 to designate."
28
29 III.1.B.o. Page 3-8, line 20. Delete the first sentence of the
30 paragraph and replace it with the following: "To be
31 acceptable at 616 NRDWSF, samples of non-radioactive waste
32 streams must be documented to have been sent to a laboratory
33 for waste profiling when newly identified or whenever the
34 process used or raw materials usage changes, and at least
35 annually thereafter, to ensure that the waste designation
36 assigned by the Solid Waste Engineering staff (Section 3.2)
37 is accurate and in compliance with land ban restrictions."
38
39 III.1.B.p. Page 3-8, line 29. The words "For two months" are deleted
40 and replaced with "For the next six shipments or two months,
41 whichever is longer, to 616 NRDWSF."
42
43 III.1.B.q. Page 3-8, line 32. The following line is added to the end
44 of the paragraph: "The laboratory verification results
45 shall be obtained in accordance with WAC 173-303-110."
46
47 III.1.B.r. [Reserved]
48

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- 1 III.1.B.s. Page 4-5, line 4. Add the following after the word
2 "performed": "after determination by the Building Emergency
3 Director (BED) that implementation of the Contingency Plan
4 pursuant to Appendix 7A is not necessary or all necessary
5 actions in accordance with the Contingency Plan have been
6 implemented. Either case must be recorded and signed in the
7 TSD unit-specific operating record by the BED."
8
- 9 III.1.B.t. [Reserved]
- 10
11 III.1.B.u. Page 4-5, line 32. The following sentence is added: "The
12 616 NRDWSF staff will ensure that waste is properly
13 packaged, labeled, marked, and stored."
14
- 15 III.1.B.v. Page 4-5, line 46. The sentence "Wherever possible, organic
16 free water will be used as the collection medium to minimize
17 the generation of additional dangerous waste." is deleted.
18
- 19 III.1.B.w. Page 4-5, line 46. The following sentence is added after
20 "spilled material": "All samples taken to verify that the
21 site of a release is clean will be obtained in accordance
22 with the applicable standards of Section 11.1.5. et seq."
23
- 24 III.1.B.x. Figure 6-2, Section 2.0, Hallway. Revise the checklist to
25 read "Protective equipment supply present per the emergency
26 equipment list." This equipment shall be individually
27 inspected and documented by type, and be in adequate
28 condition, and in the quantities listed. The revised
29 checklist shall be submitted for approval to the Department
30 within 30 days of the effective date of this Permit.
31
- 32 III.1.B.y. Page 8-28, lines 5 through 8. These lines are deleted.
33
- 34 III.1.B.z. Chapter 11. All sampling and analyses necessary for soils
35 underneath a contaminated concrete layer must be performed
36 prior to removal of the overlying concrete. All soils which
37 exceed the clean closure standards of WAC 173-303-610(2)(b)
38 shall be managed in a manner analogous to that for
39 contaminated surrounding soil as described in Chapter 11 of
40 Attachment 8.
41
- 42 III.1.B.aa. Page 11-2, line 1. The words "In general," are deleted from
43 the text. The "t" on "these" is capitalized to read
44 "These".
45
- 46 III.1.B.bb. Table 11-1, page T11-1. In addition to the analyses in
47 Table 11-1, the concrete samples shall also be analyzed for
48 all dangerous waste constituents documented to have been
49 spilled at the 616 NRDWSF during its operating life. These

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1 analyses shall be performed in accordance with WAC 173-303-
2 110 including the quality assurance and quality control
3 requirements delineated in SW-846. Action levels shall be
4 based on the level of quantitation for each analyte. Final
5 decisions based on health based standards shall be subject
6 to approval or rejection by the Department.
7

8 III.1.B.cc. Page 12-5, line 28. Replace the words "via line management,
9 that the" with "via line management, when the".

10 III.1.B.dd. Page 12-5, line 41. The words, "outside the Hanford
11 Facility" are deleted.

12 III.1.B.ee. Page 12-12, line 16. The last two sentences of this
13 paragraph are deleted.

14 III.1.B.ff. Table 12-1 "Reports and Records." A definition of the
15 footnote "a" is added to the bottom of the table as follows:
16

17 "a Hanford Facility means the reports and records are
18 available through the Facility Regulatory File index
19 pursuant to Section 12.0. Until the index is implemented,
20 reports and records will be available at the Facility, but
21 not necessarily at the 616 NRDWSF.
22

23 616 NRDWSF means the reports and records are available at
24 the 616 NRDWSF office."
25

26 III.1.B.gg. Chemical, biological, and physical analyses of the dangerous
27 waste to be handled at 616 NRDWSF pursuant to WAC 173-303-
28 806(4)(a), entitled "616 Nonradioactive Dangerous Waste
29 Facility Off-Site Shipping Lists," is found in Attachment 9
30 of this Permit.
31

32 III.1.B.hh. The description of procedures as referenced in Appendix 11B
33 are provided in various sections of Procedure Description,
34 January 13, 1991 (Attachment 10). The specific sections of
35 Attachment 10 which are incorporated into the Permit are
36 listed in Table III-1, below, by procedure. No part of
37 Attachment 10 shall supersede any part of Attachment 8.
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Number	Procedure	Pages	Sections
11B-1	Preparing Health and Safety Plan	1-4	1.0, 2.0, 3.0, 4.2, 5.0, 5.1, 5.2, 6.0, 6.1, 6.2
11B-2	Decontaminating Sampling Equipment	23-24	1.0, 2.0, 3.0, 5.2, 5.3, 6.1, 6.2, 6.3
11B-3	Evaluating Data	25-26, 28-29	1.0; 2.0, 3.0, 4.7, 5.0
11B-4	Packaging Samples	32-35	1.0, 4.0, 4.1, 5.0, 5.1, 5.2
11B-5	Soil and Sediment Sample Containers	6-11	1.0, 3.0, 4.2, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8
11B-6	Ensuring Quality Control of Records and Documentation	70-77	1.0, 3.0, 4.0, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.0, 6.2, 6.3, 6.4, 6.5, 6.6
11B-7	Maintaining a Field Logbook	44-48	1.0, 3.0, 5.0, 5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.5, 6.0, 6.1, 6.2, 7.0
11B-8	Chain-of-Custody	39-43	1.0, 3.0, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 5.0, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.7
11B-9	Controlling Unknown Suspected Waste	49-59	1.0, 3.0, 4.1, 4.2, 4.3, 4.4, 4.5, 5.0, 5.1, 5.2, 6.0, 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 6.10, 6.11
11B-10	Deviating from Procedures Used During Closure	60-64	1.0, 2.0, 4.0, 4.2, 5.0, 5.1, 5.2, 5.2.1, 5.2.2, 5.3

Table III-1: Procedures from Attachment 10.

III.1.B.ii. All instances where the emergency response number is cited as "811" shall be changed to "911."

CHAPTER 2

305-B Storage Facility

The 305-B Storage Facility (305-B) is an active storage unit for dangerous wastes and mixed wastes. These wastes are derived primarily from research and development activities and laboratory activities in the 300 Area. This Chapter sets forth the operating Conditions for this TSD unit.

III.2.A. COMPLIANCE WITH APPROVED PERMIT APPLICATION

The Permittees shall comply with all the requirements set forth in the 305-B Storage Facility Dangerous Waste Permit Application, as found in Attachment 18 including the amendments specified in Condition III.2.B. Enforceable portions of the application are listed below (All subsections, figures, and tables included in these portions are also enforceable unless stated otherwise):

Part A Application

- Section 2.1.2 The 305-B Storage Unit
- Section 2.2.1 General Requirement
- Section 2.5 Performance Standard
- Section 2.6 Buffer Monitoring Zones
- Section 2.8 Manifest System
- Chapter 3.0 Waste Characteristics
- Chapter 4.0 Process Information
- Chapter 6.0 Procedures to Prevent Hazards
- Chapter 7.0 Contingency Plan
- Chapter 8.0 Personnel Training
- Chapter 11.0 Closure and Postclosure Requirements
- Chapter 12.0 Reporting and Recordkeeping
- Section 13.8 Toxic Substances Control Act
- Section 13.9 Other Requirements

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Appendix 2A Hanford Site and 300-Area Topographic
Maps, Plates 2-2 Through 2-9

III.2.B. **AMENDMENTS TO THE APPROVED PERMIT APPLICATION**

III.2.B.a. For all shipments of dangerous waste to or from this TSD unit, except for shipments which occur wholly within the 300 Area, the Permittees shall comply with Conditions II.P. and II.Q. of this Permit regarding dangerous waste shipment manifesting and transportation.

III.2.B.b. Page 3-5, line 41. The following text is added: "The 305-B personnel shall collect from the generating unit(s) the information pursuant to 40 CFR 268.7(a) regarding Land Disposal Restricted (LDR) wastes, the appropriate treatment standards, whether the waste meets the treatment standards, and the certification that the waste meets the treatment standards, if necessary, as well as any waste analysis data that supports the generator's determinations. If this information is not supplied by the generating unit, then the 305-B personnel shall be responsible for completion and transmittal of all subsequent information regarding LDR wastes, pursuant to 40 CFR 268.7(b). All waste streams must be re-characterized at least annually, or when generating unit and/or 305-B personnel have reason to believe the waste stream has changed, to determine compliance with LDR requirements in 40 CFR 268."

III.2.B.c. Page 3-9, line 16. The following is added to the end of this section: "Storage limits for all chemicals are listed in Table 4-1, page 4-18, and 4-19 (Uniform Building Code, Table numbers 9-A and 9-B). This table is incorporated into this section by reference."

III.2.B.d. Page 3-10, line 27. The following paragraphs are inserted into this section:

Prior to acceptance of wastes at 305-B, confirmation of designation may be required (Section 3.2.4). The Wastes which shall undergo confirmation of designation are identified in Condition III.2.B.f. of this Permit and may be divided into two groups; those that easily yield a representative sample (Category I), and those that do not (Category II). The steps for each type are outlined below along with a description of which wastes fall into each category:

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1 Category I. If a waste which easily yields a representative
2 sample is received a representative sample will be taken
3 from the waste containers selected. If more than one phase
4 is present, each phase must be tested individually. The
5 following field tests will be performed:
6

- 7 * Reactivity - HAZCAT™ oxidizer, cyanide, and sulfide
8 tests. These tests will not be performed on materials
9 known to be organic peroxides, ethers, and/or water
10 reactive compounds.
11
12 * Flashpoint/explosivity - by HAZCAT™ flammability
13 procedure B, explosive atmosphere meter¹, or a closed
14 cup flashpoint measurement instrument¹.
15
16 * pH - by pH meter¹ or pH paper (SW-846-9041).² This
17 test will not be performed on non-aqueous materials.
18
19 * Halogenated organic compounds - by Chlor-D-Tect™
20 kits.
21
22 * Volatile organic compounds - by photo or flame
23 ionization tester¹, by gas chromatography with or
24 without mass spectrometry, or by melting point and/or
25 boiling point determination.
26

27 ¹These instruments are field calibrated or checked for
28 accuracy daily when in use.
29

30 ²The pH paper must have a distinct color change every 0.5 pH
31 unit and each batch of paper must be calibrated against
32 certified pH buffers or by comparison with a pH meter
33 calibrated with certified pH buffers.
34

35 If the sample data observed meets the parameters specified
36 in its documentation, within a 10% tolerance, confirmation
37 of designation is complete and the waste may be accepted.
38 If not, the waste is rejected and returned to the generating
39 unit, and sampling and analysis of the waste is required to
40 be included with a resubmitted CD/RR.
41

42 When mathematically possible, the Permittees shall perform
43 confirmation on an equal number of Category I and Category
44 II containers.
45

46 Category II. If a representative sample is not easily
47 obtained (for example, discarded machinery or shop rags) or
48 if the waste is a labpack or discarded laboratory reagent
49 container, the following steps will be performed:

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- 1 a. Visually verify the waste. Examine each selected
2 container to assure that it matches the data provided
3 on the CD/RR form(s) provided to document the waste.
4 Labpacks and combination packages must be removed from
5 the outer container. If the waste matches the
6 description specified in its documentation,
7 confirmation of designation is complete and the waste
8 may be accepted. If not, the waste is rejected and
9 returned to the generating unit, and the generating
10 unit revises and resubmits the documentation to
11 reflect the actual contents. If necessary, the waste
12 shall be re-designated utilizing the designation
13 methods identified in WAC 173-303-070 through 173-303-
14 100."

15
16 III.2.B.e.

17 Page 3-10, line 32. The following is added to the end of
18 this section: "Wastes must be analyzed using the TCLP in
19 accordance with Appendix II of 40 CFR 261, as amended, in
20 order to provide sufficient information for proper
21 management and for decisions regarding Land Disposal
22 Restrictions pursuant to 40 CFR 268."

23 III.2.B.f.

24 Page 3-16, lines 24-28. Replace the existing language with:
25 "At least five percent (5%) of the waste containers received
26 at 305-B during a Federal fiscal year (October 1 through
27 September 30) will undergo confirmation of designation
28 pursuant to Sections 3.2.2 and 3.2.3 (Test Methods and
29 Sampling Methods, respectively). The number of containers
30 needed to meet the 5% requirement is 5% of the average of
31 containers for the previous three months. For example if
32 200 containers are received in January, 180 in February, and
33 220 in March, then 10 containers of received waste must
34 undergo confirmation of designation in April. All
35 generating units which ship more than twenty (20) containers
36 through 305-B in a fiscal year will have at least one (1)
37 container sampled and analyzed. Containers for which there
38 is insufficient process knowledge or analytical information
39 to designate without sampling and analysis may not be
40 counted as part of the five percent requirement unless there
41 is additional confirmation of designation independent of the
42 generator designation. The generating unit's staff shall
43 not select the waste containers to be sampled and analyzed
44 other than identifying containers for which insufficient
45 information is available to designate.

46
47 Containers of the following are exempt from the confirmation
48 calculation above: Laboratory reagents or other unused
49 products such as paint, lubricants, solvent, or cleaning

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- 1 products, whether received for redistribution, recycling, or
2 as waste. To qualify for this exemption, such materials
3 must be received at 305-B in their original containers."
4
- 5 III.2.B.g. Page 4-1, line 30. "and -630" is added after "WAC 173-303-
6 190" in this sentence.
7
- 8 III.2.B.h. Page 4-1, line 45. Added to the end of this section is the
9 following sentence: "Containers utilized for off-site
10 shipment shall also comply with WAC 173-303-190(2) and (3).
11 305-B personnel shall comply with WAC 173-303-190(4)."
12
- 13 III.2.B.i. Page 4-24, line 21. The following paragraph is added to the
14 end of Section 4.1.1.8.: "Verification sampling shall be
15 carried out in accordance with Section 11.1.4.4. (Methods
16 for sampling and testing to demonstrate success of
17 decontamination)."
18
- 19 III.2.B.j. Page 7-3, line 1. This line is deleted.
20
- 21 III.2.B.k. Page 7-3, line 28. The following is added to the end of
22 this Section: "The names and work phone numbers of the 305-B
23 Emergency Coordinator(s) shall be submitted to Ecology and
24 the Agency and kept at the Single Point contact and with the
25 contingency plan at the 305-B Unit."
26
- 27 III.2.B.l. Page 7-6, line 2. The following is added to this Section:
28 "Samples of spilled or released material(s) shall be taken
29 in accordance with the WAP found in Section 3.2."
30
- 31 III.2.B.m. Page 7-13, line 46. Added to the end of the second to last
32 sentence is the following: "pursuant to WAC 173-303-
33 360(2)(j)."
34
- 35 III.2.B.n. Page 7-23, line 35. The following bullet is added to this
36 Section: "All local police and fire departments, hospitals,
37 and State and local response teams that may be called upon
38 to provide emergency services."
39
- 40 III.2.B.o. Page 8-2, line 28. The "I"s are replaced by "B"s on this
41 line, changing the training frequency for Hazardous Waste
42 Shipment Certification from initially to biennially.
43
- 44 III.2.B.p. Page 8-2, line 30. A "B⁴" is inserted replacing the "N"
45 under the vertical column for TS (Waste Management
46 Technicians and Technical Specialists), requiring that they
47 receive Radioactive Material Shipping Representative
48 training biennially. Footnote 4 shall be changed to read:

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- 1 "Required for staff directly responsible for radioactive
- 2 material shipments."
- 3
- 4 III.2.B.q. Page 11-1, line 44. Added to the end of this Section is the
- 5 following: "Spill reports and logs shall be consulted to
- 6 determine potential areas of contamination."
- 7
- 8 III.2.B.r. Page 11-3, line 51. Prior to the words "will also be
- 9 performed.", the following is added: "or areas of documented
- 10 spills or releases."
- 11
- 12 III.2.B.s. Page 11-8, lines 4 and 7. The following language is
- 13 inserted after the words Low-Level Radioactive on line 4 and
- 14 Nonregulated on line 7, respectively, replacing the current
- 15 language: "Shall be handled in accordance with the Liquid
- 16 Effluent Consent Order (No. DE 91NM-177) and Milestone M-17
- 17 of the Hanford Federal Facility Agreement and Consent
- 18 Order."
- 19
- 20 III.2.B.t. Page 11-8, line 25. Prior to the words "...will also be
- 21 performed", the following is added: "or areas of documented
- 22 spills or releases".
- 23
- 24 III.2.B.u. Page 11-13, line 39. The words "annually during closure
- 25 activities" are deleted from the end of this sentence and
- 26 replaced with: "in accordance with Condition II.H.1." of
- 27 this Permit.
- 28
- 29 III.2.B.v. Page 12-1, lines 7-9. The sentence beginning "Many of the
- 30 records..." is deleted.
- 31
- 32 III.2.B.w. [Reserved]
- 33
- 34 III.2.B.x. Page 12-10, line 37. Added to the end of this sentence is
- 35 the following: "and Condition I.E.15. of the Facility Wide
- 36 Permit."
- 37
- 38 III.2.B.y. [Reserved]
- 39
- 40 III.2.B.z. [Reserved]
- 41
- 42 III.2.B.aa. Page 13-2, line 42. This sentence is deleted and replaced
- 43 with the following: "Wastes containing polychlorinated
- 44 biphenyls (PCB), which are subject to regulation under the
- 45 Toxic Substances Control Act (TSCA), are stored in the 305-B
- 46 Storage Unit. These wastes are stored for periods less than
- 47 one (1) year before shipment to a disposal facility
- 48 permitted under TSCA. Storage of PCB wastes in 305-B for
- 49 periods less than one (1) year will continue to be done in

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compliance with applicable TSCA regulations in 40 CFR Part
761."

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PART IV - CORRECTIVE ACTIONS FOR PAST PRACTICES

The HSWA Permit is issued by the Agency in conjunction with this Permit. Upon delegation of the Corrective Action requirements of the HSWA by the Agency to the Department, the Permit shall be modified to incorporate the specific requirements of the HSWA Permit into this Permit. This modification shall be considered a Class 3 modification in accordance with Condition I.C.3. Until this modification is complete, compliance with the terms of the referenced provisions, shall be deemed as compliance with WAC 173-303-646.

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PART V - UNIT-SPECIFIC CONDITIONS FOR UNITS UNDERGOING CLOSURE

CHAPTER 1

183-H Solar Evaporation Basin

The 183-H Solar Evaporation Basins (Basins) comprise an inactive TSD unit that is currently undergoing permanent closure activities. This TSD unit was operated as an evaporation treatment unit for dangerous wastes. This Chapter sets forth the closure requirements for this TSD unit.

V.1.A. COMPLIANCE WITH APPROVED CLOSURE PLAN

The Permittees shall comply with all requirements set forth in the *183-H Solar Evaporation Basins Closure Plan/Postclosure Plan* (Plan), found in Attachment 11, including the amendments specified in Condition V.1.B. Enforceable portions of the Plan are listed below (All subsections, figures, and tables included in these portions are also enforceable unless stated otherwise):

Part A Application

- Section I. General Closure Requirements, Introduction (Pages I-1 through I-6)
- Section I.A-1. Minimize Need for Post-Closure Maintenance and Controls
- Section I.A-2. Minimize Post-Closure Escape of Dangerous Waste
- Section I.B. Content of Closure Plan
- Section I.C. Certification of Closure, Survey Plat, Notice in Deed, and Financial Requirements
- Section II.B-1. Preliminary Cover Design
- Section III.A-1. Inspection Plan
- Section III.A-2g. Monitoring Plan Proposed to be Conducted Until Issuance of Final Status Post-Closure Permit
- Section III.A-3. Maintenance Plan
- Section III.B. Personnel Training

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1		Section III.C.	Procedures to Prevent Hazards
2			
3		Section III.D.	Post-Closure Contact
4			
5		Section III.E.	Amendment of Post-Closure Plan
6			
7		Section III.F.	Certification of Completion of Post-
8			Closure Care
9			
10		Appendix A	Topographical Maps
11			
12		Appendix L	Procedures for Sample Collection, Chain of
13			Custody, and Field Measurements
14			
15		Appendix M	Analytical Methods and Quality Control
16			Procedures
17			
18		Appendix N	Personnel Training for Closure Activities
19			
20	V.1.B.	<u>AMENDMENTS TO THE APPROVED CLOSURE PLAN</u>	
21			
22	V.1.B.a.	Page I-1, lines 9-12. The sentence found here is deleted	
23		and replaced with the following: "Additionally, the 183-H	
24		Basins will be closed in accordance with the most current	
25		version of all applicable environmental regulations and laws	
26		as well as the FFACO. New or modified regulations and laws	
27		may require closure activities and/or the closure plan to be	
28		modified."	
29			
30	V.1.B.b.	Page I-108, line 46. The reference to WAC 173-303-700 is	
31		deleted.	
32			
33	V.1.B.c.	Page I-150, line 53. The date of "October 1991" is deleted	
34		and replaced with "the first October after the effective	
35		date of this Permit".	
36			
37	V.1.B.d.	Page III-77, line 5. The phone number (509) 376-5411 is	
38		changed to (509) 375-4647.	
39			
40	V.1.B.e.	A copy of any Unusual Occurrence Report or Off Normal	
41		Occurrence Report issued after approval of the Plan which is	
42		directly related to Basin closure shall be provided to the	
43		Department's Basin unit manager within seven (7) days after	
44		issuance. This does not relieve the Permittees from any	
45		other reporting requirements specified in Part I or II of	
46		this Permit.	
47			

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- 1 V.1.B.f. Annual closure cost estimates shall be provided to the
2 Department as described in Section I.C.4. of this closure
3 plan and Condition II.H.1. of this Permit.
4
- 5 V.1.B.g. A written notification that closure has begun and will be
6 conducted in accordance with the Plan, including these
7 conditions to the Plan, shall be submitted to the Department
8 within 30 days after the Plan is approved through issuance
9 of this Permit.
10
- 11 V.1.B.h. Concrete sampling and analysis activities (basin and
12 background sampling) shall be conducted as described within
13 the Plan and as augmented by the Decommissioning Work Plan
14 (DWP) entitled "Concrete Sampling - 183-H Solar Evaporation
15 Basins" (DWP-H-080-00001) as found in Attachment 12 of this
16 Permit.
17
- 18 V.1.B.i. Soil sampling and analyses activities (including Phases I
19 and II, berm and background sampling) shall be conducted as
20 described within the Plan and as augmented by DWP-H-080-
21 00005 entitled "Core Drill Sampling - 183-H Solar
22 Evaporation Basins (Phase I)"; WHC-SD-EN-AP-056 entitled
23 "183-H Solar Evaporation Basins Vadose Zone Sampling Plan";
24 and DWP-H-026-00008 entitled "Berm Removal For 183-H Solar
25 Evaporation Basins" as found in Attachments 13, 14, and 15,
26 respectively, of this Permit.
27
- 28 V.1.B.j. The results of Basin concrete sampling (including background
29 sampling) shall be received by the Department within 180
30 days of the effective date of this Permit. This submittal
31 shall include the raw analytical data, a summary of
32 analytical results, a data validation package, and a
33 narrative summary with conclusions.
34
- 35 V.1.B.k. The results of Basin soil sampling (including Phases I and
36 II, berm and background sampling) shall be received by the
37 Department within 180 days of the effective date of this
38 Permit. This submittal shall include the raw analytical
39 data, a summary of analytical results, a data validation
40 package, and a narrative summary with conclusions.
41
- 42 V.1.B.l. The Department shall be provided, for review and approval, a
43 sampling plan and the date of sampling for any sampling
44 event not addressed above which provides data used to
45 support Basin closure activities at least 30 days prior to
46 initiating actual sampling activities. This condition
47 applies to, but is not limited to, equipment and non-
48 concrete structural sampling and verification sampling. The
49 results of this sampling shall be submitted to the

1 Department. These submittals shall include the raw
2 analytical data, a summary of analytical results, a data
3 validation package, and a narrative summary with
4 conclusions.
5

6 V.1.B.m.

7 The Permittees shall submit to the Department, for approval,
8 a notification indicating which closure option identified in
9 Condition II.K. of this Permit will be utilized for the
10 Basins. This notification shall be submitted at least 60
11 days prior to implementation of the option and shall be
12 accompanied by the technical and regulatory justification
13 for choosing the closure option along with any supporting
14 documentation including, if necessary, the result of
15 sampling per Conditions V.1.B.h. through V.1.B.l. This
16 notification shall also be accompanied by a revised Figure
17 I.B-20 of the Plan indicating a new closure schedule;
18 however, the date of final closure shall not exceed eighteen
19 (18) months after the effective date of this Permit.
20 Implementation of the option cannot commence until receipt
21 of the Department's written approval for the closure option.

22 V.1.B.n.

23 Regardless of the option chosen from Condition II.K., the
24 Permittees and the independent, registered, professional
25 engineer certifications of closure shall be prepared and
26 submitted to the Department within 60 days of closure as
27 described in Section I.C-1. of the closure plan.

28 V.1.B.o.

29 If a landfill closure is chosen, the definitive design
30 documents, construction specifications, construction
31 drawings, and construction quality assurance plans for any
32 engineered system (including a final cover system) shall be
33 submitted to the Department pursuant to Condition I.C.3.

34 V.1.B.p.

35 After review of the documents identified in Condition
36 V.1.B.o., the Department may issue a unit-specific
37 Construction Inspection Plan (CIP). If the Department
38 chooses to issue a CIP, the Department shall be provided
39 with all submittals and notifications required by the CIP
40 and within the time period identified in the CIP.

41 V.1.B.q.

42 If a landfill closure is chosen, notification of any of the
43 following occurrences shall be provided to the Department
44 within 30 days of observance until a postclosure permit is
45 issued: settlement/sedimentation in the final cover greater
46 than one (1) foot; actual vegetative cover canopy on the
47 final cover less than 50 percent (50%) of a typical Hanford
48 cover canopy six (6) months after closure; erosion of the
49 final cover greater than six (6) inches; tampering or damage
to wells or well heads. The notification must include the

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1 extent and cause of the occurrence as well as actions taken
2 (or to be taken) to mitigate the occurrence.
3

4 V.1.B.r. If a modified closure is chosen, the Permittees shall
5 request any reduction of landfill requirements identified in
6 the Plan pursuant to Condition I.C.3. This request shall be
7 based upon the quantity and concentration of contamination
8 which will remain in place, and shall meet the requirements
9 of Condition II.K.3.

10
11 V.1.B.s. If a modified closure or landfill closure is chosen, a
12 survey plat shall be prepared and submitted to the
13 Department, and the Benton County Planning Department no
14 later than 60 days after certification of closure as
15 described in Section I.C-2. of the Plan.
16

17 V.1.B.t. If a modified closure or a landfill closure is chosen, a
18 notice on the deed to the property shall be prepared and
19 submitted to the Auditor of Benton County no later than 60
20 days after certification of closure as described in Section
21 I.C-3. of the Plan. No later than 30 days after submitting
22 this notice, a certification signed by the Permittees must
23 be submitted to the Department that the notification has
24 been recorded along with a copy of the notice itself.
25

26 V.1.B.u. If a modified closure or landfill closure is chosen, a
27 revision to the "Final Status Postclosure Permit
28 Application, 183-H Solar Evaporation Basins" (June 1988),
29 shall be submitted pursuant to Condition I.C.3. within 12
30 months of the Department's approval of the closure option.
31

32 V.1.B.v. Quarterly and annual ground water monitoring reports for the
33 wells specified in the Plan shall continue to be submitted
34 to the Department until clean closure is acknowledged by the
35 Department in writing or as specified otherwise in a Basin
36 postclosure permit.
37
38

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CHAPTER 2

300 Area Solvent Evaporator

The 300 Area Solvent Evaporator (300 ASE) is an inactive treatment unit which is currently undergoing permanent closure activities. This TSD unit was operated as an evaporation treatment unit for dangerous wastes. This Chapter sets forth the closure requirements for this TSD unit.

V.2.A. COMPLIANCE WITH THE APPROVED CLOSURE PLAN

The Permittees shall comply with all the requirements set forth in the 300 Area Solvent Evaporator Closure Plan (Plan), as found in Attachment 16, including the amendments specified in Condition V.2.B. Enforceable portions of the Plan are listed below (All subsections, figures, and tables included in these portions are also enforceable unless stated otherwise):

Part A Application

Section 1.1.1	Location and General Description
Section 1.1.2	The 300-Area Solvent Evaporator
Section 1.2	Security Information
Chapter 2.0	Closure Performance Activities
Chapter 3.0	Description of Closure Activities
Chapter 4.0	Certification of Closure
Chapter 5.0	Post-closure
Chapter 6.0	Procedures to Prevent Hazards
Chapter 7.0	Contingency Plan
Chapter 8.0	Personnel Training
Section 9.8	Other Requirements
Appendix E	Soil and Concrete Sampling and Analysis Plan for the 300 Area Solvent Evaporator

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1 V.2.B. AMENDMENTS TO THE APPROVED CLOSURE PLAN

2
3 V.2.B.a. A written notification that closure has begun and will be
4 conducted in accordance with the Plan, including these
5 Conditions to the Plan, shall be submitted to the Department
6 within 30 days after the Plan is approved through issuance
7 of this Permit.

8
9 V.2.B.b. The results of all sampling required by this Plan shall be
10 provided to the Department. This submittal shall include
11 the raw analytical data, a summary of analytical results, a
12 data validation package, and a narrative summary with
13 conclusions.

14
15 V.2.B.c. The Department shall be provided, for review and approval, a
16 sampling plan and the date of sampling for any sampling
17 event not addressed in the Plan which provides data used to
18 support 300 ASE closure activities at least 30 days prior to
19 initiating actual sampling activities. The results of this
20 sampling shall be submitted to the Department. These
21 submittals shall include the raw analytical data, a summary
22 of analytical results, a data validation package, and a
23 narrative summary with conclusions.

24
25 V.2.B.d. Annual cost estimates shall be provided to the Department as
26 described in Section 5.2. of this closure plan and Condition
27 II.H.1. of this Permit. At Page 5-2, line 6, delete
28 "October 1993", and replace it with "the first October after
29 the effective date of this Permit."
30

31 V.2.B.e. The Permittees shall notify the Department, in writing, if
32 the initial action levels in Table 3-2 of the Plan are
33 exceeded. The notification shall either include a request
34 for the Department's approval of alternative action levels
35 or identify the interim measures to be taken at the 300 ASE
36 until closure activities are performed in conjunction with
37 the 300-FF-2 Operable Unit.
38

39 V.2.B.f. The Permittees and the independent, registered, professional
40 engineer certifications of closure shall be prepared and
41 submitted to the Department by registered mail within 60
42 days of closure as described in Section 4.0. of the Plan.
43 The Permittees shall continue to address the 300 ASE as a
44 dangerous waste management unit until receipt of the
45 Department's written notification that the 300 ASE is
46 accepted as clean closed.
47

48 V.2.B.g. The Permittees shall complete 300 ASE closure activities
49 within 180 days after the effective date of this Permit.

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CHAPTER 3

2727-S Nonradioactive Dangerous Waste Storage Facility

The 2727-S Nonradioactive Dangerous Waste Storage Facility (2727-S) is an inactive storage unit which is currently undergoing permanent closure activities. This TSD unit was operated as a storage unit for dangerous wastes. This Chapter sets forth the closure requirements for this TSD unit.

V.3.A.

COMPLIANCE WITH THE APPROVED CLOSURE PLAN

The Permittees shall comply with all the requirements set forth in the 2727-S Nonradioactive Dangerous Waste Storage Facility Closure Plan (Plan), as found in Attachment 17, including the amendments specified in Condition V.3.B. Enforceable portions of the Plan are listed below (All subsections, figures, and tables included in these portions are also enforceable unless stated otherwise):

Part A Application

Section 1.1 Location Information

Section 1.2 Security

Section 1.3 Facility Description and Operations

Chapter 2.0 Closure Performance Standard

Chapter 4.0 Closure Activities

Chapter 5.0 Contingency Plan

Chapter 6.0 Training Requirements

Chapter 7.0 Closure Plan Schedule

Appendix F Sampling and Handling Procedures

Appendix G Quality Assurance Project Plan

Appendix H Personnel Training

Appendix I Certification Statements

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1 V.3.B. AMENDMENTS TO THE APPROVED CLOSURE PLAN

2
3 V.3.B.a. A written notification that closure has begun and will be
4 conducted in accordance with the Plan, including these
5 Conditions to the Plan, shall be submitted to the Department
6 within 30 days after the Plan is approved through issuance
7 of this Permit.
8

9 V.3.B.b. The results of all sampling required by this Plan shall be
10 provided to the Department. This submittal shall include
11 the raw analytical data, a summary of analytical results, a
12 data validation package, and a narrative summary with
13 conclusions.
14

15 V.3.B.c. The Department shall be provided, for review and approval, a
16 sampling plan and the date of sampling for any sampling
17 event not addressed in the Plan which provides data used to
18 support 2727-S closure activities at least 30 days prior to
19 initiating actual sampling activities. The results of this
20 sampling shall be submitted to the Department. These
21 submittals shall include the raw analytical data, a summary
22 of analytical results, a data validation package, and a
23 narrative summary with conclusions.
24

25 V.3.B.d. Annual cost estimates shall be provided to the Department as
26 described in Section 4.6. of this closure plan and Condition
27 II.H.1. of this Permit.
28

29 V.3.B.e. The Permittees shall notify the Department, in writing, if
30 clean closure concentrations cannot be achieved. The
31 notification shall include a justification for not
32 completing clean closure requirements and a plan to address
33 dangerous waste postclosure requirements at 2727-S.
34

35 V.3.B.f. The Permittees and the independent, registered, professional
36 engineer certifications of closure shall be prepared and
37 submitted to the Department by registered mail within 60
38 days of closure as described in Section 4.7 of the Plan.
39 The Permittees shall continue to address 2727-S as a
40 dangerous waste management unit until receipt of the
41 Department's written notification that 2727-S is accepted as
42 clean closed.
43

44 V.3.B.g. The Permittees shall complete 2727-S closure activities
45 within 180 days after the effective date of this Permit.
46

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