

0050550

**NOTICE OF INTENT  
FOR EXPANSION UNDER  
INTERIM STATUS**

**HANFORD FACILITY  
IMMOBILIZED HIGH-LEVEL WASTE  
INTERIM STORAGE UNIT  
RICHLAND, WASHINGTON**



**U.S. DEPARTMENT OF ENERGY,  
RICHLAND OPERATIONS OFFICE**

**JANUARY 1999**

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ACRONYMS

1		
2		
3	CSB	canister storage building
4		
5	DOE-RL	U.S. Department of Energy, Richland Operations Office
6		
7	Ecology	Washington State Department of Ecology
8		
9	HWVP	Hanford Waste Vitrification Plant
10		
11	IHLW	immobilized high-level waste
12		
13	NEPA	<i>National Environmental Policy Act of 1969</i>
14	NOI	notice of intent
15		
16	RCRA	<i>Resource Conservation and Recovery Act of 1976</i>
17		
18	SEPA	<i>State Environmental Policy Act of 1971</i>
19		
20	TSD	treatment, storage, and/or disposal
21		
22	WAC	Washington Administrative Code
23		

## METRIC CONVERSION CHART

The following conversion chart is provided to the reader as a tool to aid in conversion.

Into metric units			Out of metric units		
If you know	Multiply by	To get	If you know	Multiply by	To get
<b>Length</b>			<b>Length</b>		
Inches	25.40	Millimeters	Millimeters	0.0393	inches
Inches	2.54	Centimeters	Centimeters	0.393	inches
Feet	0.3048	Meters	Meters	3.2808	feet
Yards	0.914	Meters	Meters	1.09	yards
Miles	1.609	Kilometers	Kilometers	0.62	miles
<b>Area</b>			<b>Area</b>		
Square inches	6.4516	Square centimeters	Square centimeters	0.155	square inches
Square feet	0.092	square meters	Square meters	10.7639	square feet
Square yards	0.836	square meters	Square meters	1.20	square yards
Square miles	2.59	Square kilometers	Square kilometers	0.39	square miles
Acres	0.404	Hectares	Hectares	2.471	acres
<b>Mass (weight)</b>			<b>Mass (weight)</b>		
Ounces	28.35	Grams	Grams	0.0352	Ounces
Pounds	0.453	Kilograms	Kilograms	2.2046	Pounds
Short ton	0.907	metric ton	Metric ton	1.10	short ton
<b>Volume</b>			<b>Volume</b>		
Fluid ounces	29.57	Milliliters	Milliliters	0.03	fluid ounces
Quarts	0.95	Liters	Liters	1.057	Quarts
Gallons	3.79	Liters	Liters	0.26	Gallons
Cubic feet	0.03	cubic meters	Cubic meters	35.3147	cubic feet
Cubic yards	0.76	cubic meters	Cubic meters	1.308	cubic yards
<b>Temperature</b>			<b>Temperature</b>		
Fahrenheit	subtract 32 then multiply by 5/9ths	Celsius	Celsius	Multiply by 9/5ths, then add 32	Fahrenheit

Source: *Engineering Unit Conversions*, M. R. Lindeburg, PE., Second Ed., 1990, Professional Publications, Inc., Belmont, California.

1  
2  
3 **1.0 INTRODUCTION**

4 The Washington State Department of Ecology (Ecology) *Dangerous Waste Regulations*, Washington  
5 Administrative Code (WAC) 173-303-281, require that dangerous waste facility owners and/or  
6 operators submit a Notice of Intent (NOI) before submittal of a Part A, Form 3, permit application for  
7 proposed or expanded dangerous waste treatment, storage, and/or disposal (TSD) units on the Hanford  
8 Facility. The following information for this NOI is being filed with Ecology by the U.S. Department of  
9 Energy, Richland Operations Office (DOE-RL), the owner and operator.

10 This document is to serve notice of the intent to expand container storage on the Hanford Facility for  
11 storage of vitrified high-level mixed waste in the Immobilized High-Level Waste (IHLW) Interim  
12 Storage Unit. The IHLW Interim Storage Unit will use two of the three existing Canister Storage  
13 Building (CSB) vaults. The expansion will consist of deleting the container storage process designation  
14 from the Hanford Waste Vitrification Plant (HWVP) Part A, Form 3, permit application (Part A), and  
15 submitting a new Part A, Form 3, for container storage in two vaults at the IHLW Interim Storage Unit.

16  
17 The expansion of container storage is being pursued to ensure compliance with storage requirements of  
18 WAC 173-303 and the *Resource Conservation and Recovery Act (RCRA) of 1976*, as amended.

19  
20 The following identifies the owner and operator of the Hanford Facility and the primary contact:

21  
22 **Owner and Operator:** U.S. Department of Energy,  
23 Richland Operations Office

24  
25 **Manager, Richland Operations Office:** Mr. James C. Hall, Acting Manager

26  
27 **Richland Operations Office Contact:** Mr. James E. Rasmussen

28  
29 **Address:** U.S. Department of Energy  
30 Richland Operations Office  
31 Post Office Box 550  
32 Richland, Washington 99352

33  
34 **Telephone:** (509) 376-5441.

35  
36  
37 **2.0 FACILITY DESCRIPTION AND GENERAL PROVISIONS**

38  
39 The Hanford Facility is a single RCRA facility identified by the U.S. Environmental Protection  
40 Agency/State Identification Number WA7890008967 that consists of over 60 TSD units conducting  
41 dangerous waste management activities. These TSD units are included in the *Hanford Facility*  
42 *Dangerous Waste Part A Permit Application* (DOE-RL-88-21). The Hanford Facility, for the purposes  
43 of RCRA, is owned by the U.S. Government and operated by the DOE-RL (DOE/RL-91-28).

44  
45 The following sections provide a description of the IHLW Interim Storage Unit, along with other  
46 general provisions specified in WAC 173-303-281.

1    **2.1 LOCATION OF PROPOSED EXPANSION**

2    The IHLW Interim Storage Unit will be located in the 200 East Area of the Hanford Facility,  
3    Benton County, Washington. Small-scale maps depicting the Hanford Facility and the location of the  
4    IHLW Interim Storage unit are provided in Figures 1 and 2. A large-scale map and a topographic map,  
5    which meet the 2.54-centimeter-equals-not-more-than-61-meters requirement, are provided in  
6    Appendix A and include the following:

- 7
- 8    • General Overview of Hanford Site (H-6-958)
  - 9
  - 10   • Topographic map of the IHLW Interim Storage Unit (H-13-000287), including the surrounding  
11    305 meters.

12   **2.2 DESCRIPTION OF UNIT TO BE EXPANDED**

13   The primary mission of the IHLW Interim Storage Unit will be to store canisters of vitrified mixed  
14   IHLW from the treatment of Hanford Site tank waste. The vitrified mixed IHLW will be stored in two  
15   of the three vaults constructed for the CSB. The CSB originally was intended for storage of vitrified  
16   mixed IHLW for the HWVP Project. However the HWVP Project was cancelled during the design  
17   phase. Subsequently the CSB was designed and constructed under the Spent Nuclear Fuels project for  
18   storage of nonregulated spent nuclear fuel (Vault 1).

19

20   The CSB design contains three storage vaults with associated operation and support areas. The IHLW  
21   Interim Storage Unit will use vaults 2 and 3 located at the southern end of the CSB (Figure 3). Each  
22   vault will contain a storage tube matrix of 22 rows with 10 columns per row for a total of 220 carbon  
23   steel storage tubes and one row of six columns of overpack storage tubes (Figure 3). Major  
24   modifications to the CSB will include the addition of air intake structures and exhaust stacks for natural  
25   convective cooling of the vaults, installation of storage tubes and shield plugs, and a load-in/load-out  
26   annex at the southeast end of the CSB (Figure 3). The IHLW Interim Storage Unit will also use existing  
27   support structures and facilities at the CSB.

28

29   A tractor/trailer shielded-cask system will be used to transport the IHLW canisters and nonroutine HLW  
30   canisters from the private contractor to the CSB. A crane will transfer the canisters to a loadin/loadout  
31   pit from which the canisters will be transferred to a shielded canister transporter for placement into the  
32   storage tubes (Figure 4). The canisters with IHLW eventually will be transported to an approved  
33   national geologic repository for disposal. The cesium will be returned to the IHLW private contractor  
34   for future treatment and final disposition.

35   **2.3 DESCRIPTION OF EXPANDED CAPACITY**

36   The proposed expansion will eliminate the container storage process designation from the HWVP Part  
37   A, Form 3. A new Part A, Form 3, for the IHLW Interim Storage Unit with container storage process  
38   designation will be submitted. The approximate waste storage capacity for each vault is 915,000 liters,  
39   with a total capacity of 1,830,000 liters.

1 **2.4 COMPLIANCE WITH STATE ENVIRONMENTAL POLICY ACT**

2 SEPA documentation is provided in Appendix B.

3 **2.5 COMPLIANCE WITH SITING STANDARDS**

4 Demonstration of compliance with the siting criteria as required under WAC 173-303-282(6) and (7) is  
5 addressed in the following sections.

6 **2.5.1 Criteria for Elements of the Natural Environment**

7 The following addresses measures that will be in place at the IHLW Interim Storage Unit to provide  
8 protection of the natural environment. Each element of the criteria identified in WAC 173-303-282(6) is  
9 addressed.

10 **2.5.1.1 Earth**

11 This section addresses the potential for the release of waste into the environment because of structural  
12 damage resulting from conditions of the earth at the IHLW Interim Storage Unit.

13

14 **2.5.1.1.1 Seismic Consideration.** The IHLW Interim Storage Unit will be located in Zone 2B  
15 as identified in the *Uniform Building Code* (ICBO 1996). The design of the CSB for seismic risk was  
16 evaluated in accordance with the *General Design Criteria* (DOE Order 6430.1A).

17

18 No active faults, or evidence of a fault that has had displacement during Holocene times, have been  
19 found at the Hanford Site (DOE/RW-0164). The youngest faults recognized at the Hanford Site occur on  
20 Gable Mountain, over 4.5 kilometers north of the 200 East Area. These faults are of Quaternary age and  
21 are considered 'capable' by the Nuclear Regulatory Commission (NUREG-0892).

22

23 **2.5.1.1.2 Subsidence.** The IHLW Interim Storage Unit will be located in the 200 East Area of  
24 the Hanford Facility. This area of the Hanford Facility is not considered an area subject to subsidence  
25 (PNNL-6415).

26

27 **2.5.1.1.3 Slope or Soil Instability.** The IHLW Interim Storage Unit is not located in an area of  
28 slope or soil instability, or in an area affected by unstable slope or soil conditions (PNNL-6415).

29 **2.5.1.2 Air**

30 The IHLW Interim Storage Unit will not be an incineration unit. Discussion of measures taken to reduce  
31 air emissions resulting from incineration is not applicable.

32 **2.5.1.3 Water**

33 This section addresses the potential for contaminating water of the state in the event of a release of  
34 waste.

35

36 **2.5.1.3.1 Surface Water.** The following sections address considerations for the protection of  
37 surface water.

38

1           **2.5.1.3.1.1 Flood, Seiche, and Tsunami Protection.** Three sources of potential flooding of the  
2 area were considered: (1) the Columbia River, (2) the Yakima River, and (3) storm-induced run-off in  
3 ephemeral streams draining the Hanford Facility. No perennial streams occur in the central part of the  
4 Hanford Facility (Figure 5).

5  
6           **2.5.1.3.1.2 Perennial Surface Water Bodies.** The IHLW Interim Storage Unit will be a  
7 nonland-based facility as defined in WAC 173-303-282(3)(i). WAC 173-303-282(6)(c)(i)(B)(I) requires  
8 nonland-based facilities be located at least 152 meters from any perennial water body. The IHLW  
9 Interim Storage Unit is greater than 7 kilometers from the Columbia River, the closest perennial water  
10 body.

11  
12           **2.5.1.3.1.3 Surface Water Supply.** The IHLW Interim Storage Unit will not be located within  
13 an area designated as a watershed or within 152 meters of a surface water intake for domestic water.

14  
15           **2.5.1.3.2 Groundwater.** The following sections address consideration for the protection of  
16 groundwater. The IHLW Storage Unit will be a nonland-based facility as defined by  
17 WAC 173-303-282(3); therefore, compliance with the contingent groundwater protection program is not  
18 required.

19  
20           **2.5.1.3.2.1 Depth to Groundwater.** The IHLW Storage Unit will be located in the 200 East  
21 Area of the Hanford Facility. The depth to groundwater in the 200 East Area is over 79 meters.

22  
23           **2.5.1.3.2.2 Sole Source Aquifer.** The IHLW Interim Storage Unit will not be located over an  
24 area designated as a 'sole source aquifer' under section 1424(e) of the *Safe Drinking Water Act of 1974*.

25  
26           **2.5.1.3.2.3 Groundwater Management Areas and Special Protection Areas.** The proposed  
27 expansion of container storage is not expected to result in an increased potential for release of mixed  
28 waste to groundwater or to a special protection area.

29  
30           **2.5.1.3.2.4 Groundwater Intakes.** The IHLW Interim Storage Unit will not be located within  
31 152 meters of a groundwater intake for domestic water.

#### 32 **2.5.1.4 Plants and Animals**

33 The following sections address consideration to reduce the potential for waste contaminating plant and  
34 animal habitat in the event of a release of waste: The IHLW Interim Storage Unit is over 152 meters  
35 from any of the following.

36  
37           **2.5.1.4.1 Wetlands.** The IHLW Interim Storage Unit will not be located near any wetlands.

38  
39           **2.5.1.4.2 Designated Critical Habitat.** The IHLW Interim Storage Unit will not be located in  
40 an area designated as critical habitat for federally listed threatened or endangered species as defined by  
41 the *Endangered Species Act of 1973*.

42  
43           **2.5.1.4.3 State Designated Habitat.** The IHLW Interim Storage Unit will not be located in an  
44 area designated by the Washington State Department of Wildlife as habitat essential to the maintenance  
45 or recovery of any state listed threatened or endangered species.

1           **2.5.1.4.4 Natural Area Preserves.** The IHLW Interim Storage Unit will not be located in any  
2 natural area acquired or voluntarily registered or dedicated under Chapter 79.70 Revised Code of  
3 Washington.

4  
5           **2.5.1.4.5 Wildlife Refuge, Preserve, or Bald Eagle Protection Area.** The IHLW Interim  
6 Storage Unit will not be located in a state or federally designated wildlife refuge, preserve, or bald eagle  
7 protection area.

8           **2.5.1.5 Precipitation**

9 The IHLW Interim Storage Unit will be a nonland-based facility and waste will be stored within an  
10 engineered structure that protects the waste from effects of precipitation. The IHLW Interim Storage  
11 Unit will not be located in an area having a mean annual precipitation level of greater than  
12 254 centimeters (PNNL-6415).

13           **2.5.2 Criteria for Elements of the Built Environment**

14 The following sections address the locational factors affecting protection of the built environment. Each  
15 element of the criteria for nonland-based facilities or units identified in WAC 173-303-282(7) is  
16 addressed.

17           **2.5.2.1 Adjacent Land Use**

18 This section addresses the setback criteria for adjacent land use.

19  
20 Nonland-Based Facilities. The IHLW Interim Storage Unit will be located approximately 12 kilometers  
21 from the closest Hanford Facility property line.

22           **2.5.2.2 Special Land Uses**

23 This section addresses setback criteria for special land uses.

24  
25           **2.5.2.2.1 Wild and Scenic Rivers.** The IHLW Interim Storage Unit will be located in the  
26 200 East Area at least 7 kilometers from the Columbia River, which has been proposed as a Wild and  
27 Scenic River. The IHLW Storage Unit will not be within the viewshed of users of the Columbia River.

28  
29           **2.5.2.2.2 Parks, Recreation Areas, National Monuments.** The IHLW Interim Storage Unit  
30 will be situated at least 152 meters from the nearest state or federally designated park, recreation area, or  
31 national monument.

32  
33           **2.5.2.2.3 Wilderness Area.** The IHLW Interim Storage Unit will be located over 152 meters  
34 from any Wilderness Areas as defined by the *Wilderness Act of 1964*.

35  
36           **2.5.2.2.4 Farmland.** The IHLW Interim Storage Unit will be over 152 meters from any  
37 commercial or private prime farmland.

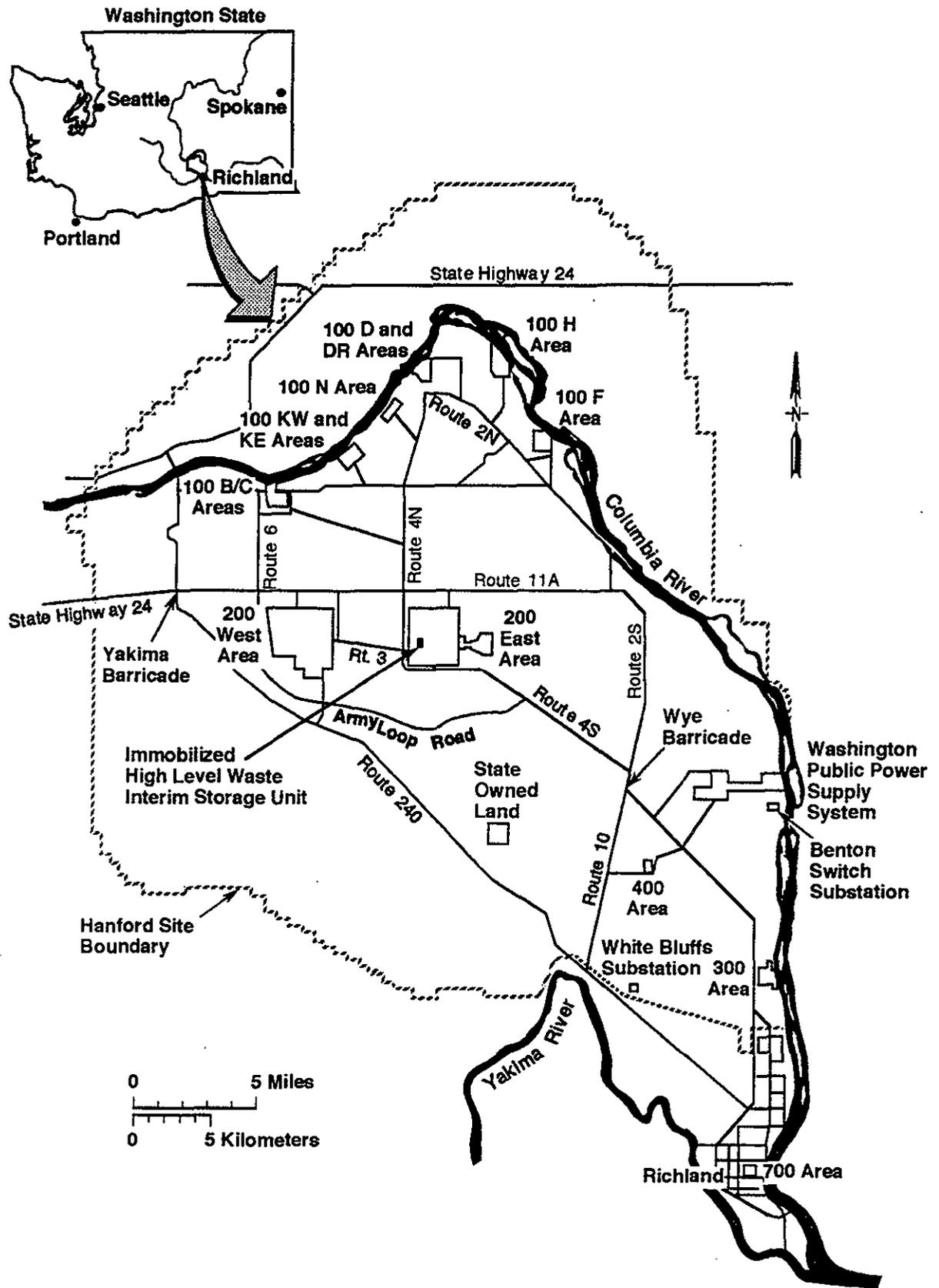
38           **2.5.2.3 Residences and Public Gathering Places**

39 This section discusses factors affecting residences and public gathering places. The IHLW Interim  
40 Storage Unit will be located over 152 meters from residences and public gathering places.



6.0 REFERENCES

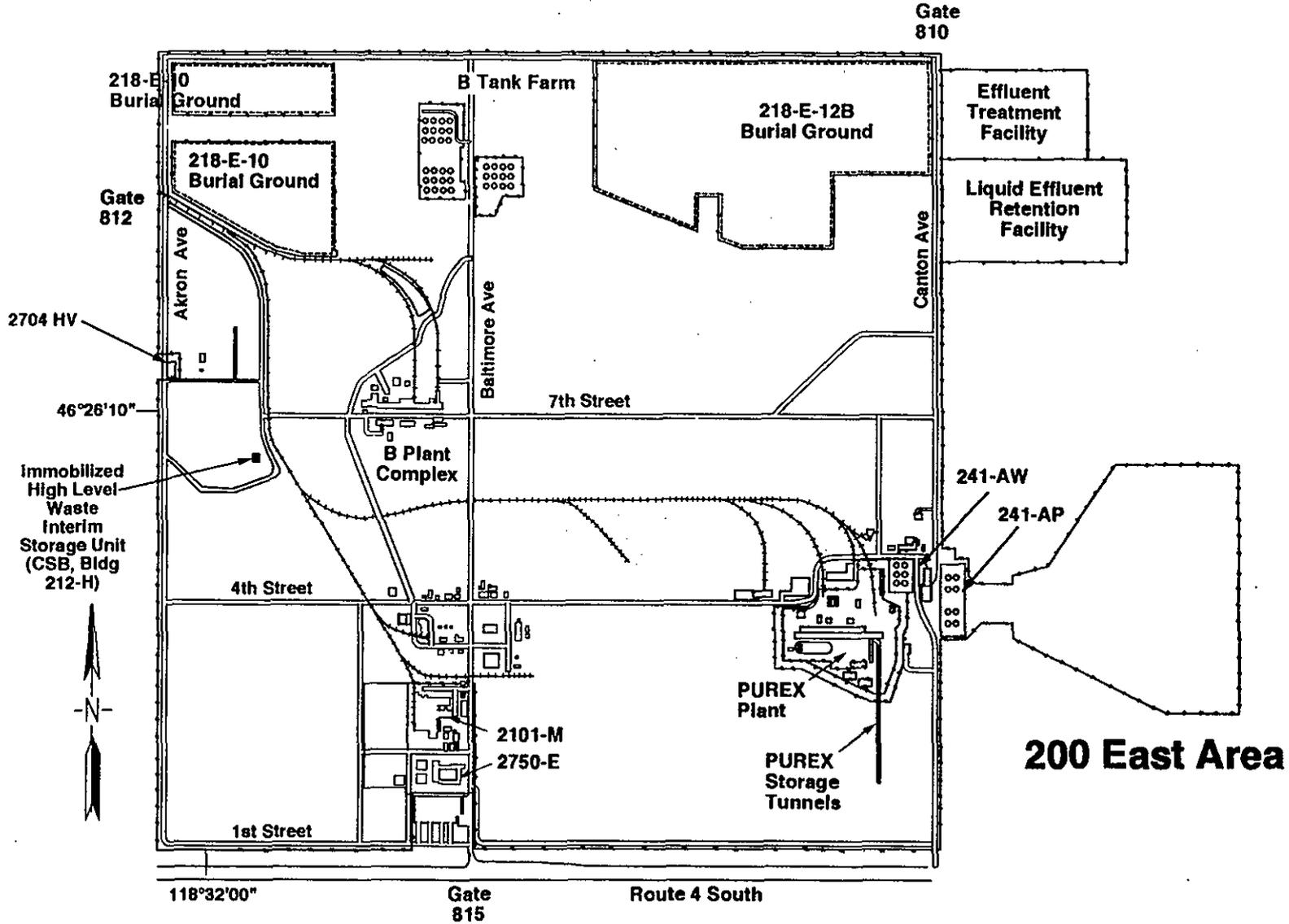
- 1  
2  
3 DOE/EIS-0222, *Hanford Remedial Action and Comprehensive Land Use Plan*, Hanford Site, Richland,  
4 Washington.  
5  
6 DOE Order 6430.1A, *General Design Criteria*.  
7  
8 DOE/RL-88-21, *Hanford Facility Dangerous Waste Part A Permit Application*, Vols. 1-3, U.S.  
9 Department of Energy, Richland Operations Office, Richland, Washington, updated periodically.  
10  
11 DOE/RL-91-28, *Hanford Facility Dangerous Waste Permit Application, General Information Portion*,  
12 U.S. Department of Energy, Richland Operations Office, Richland, Washington, updated  
13 periodically.  
14  
15 DOE/RW-0164, *Site Characterization Plan*, U.S. Department of Energy, Office of Civilian Radioactive  
16 Waste Management, Hanford Site, Richland, Washington.  
17  
18 Ecology, EPA, and DOE, 1996, *Hanford Federal Facility Agreement and Consent Order*, Vols. 1 and 2,  
19 Washington State Department of Ecology, U.S. Environmental Protection Agency, U.S.  
20 Department of Energy, Olympia, Washington, updated periodically.  
21  
22 HCRC #98-200-002, "Cultural Resources Review of the TWRS Phase 1 Privatization Environmental  
23 Baseline - Probes", letter 10/09/97, N.A. Cadoret, Pacific Northwest National Laboratory to  
24 A.L. Schatz, Waste Management Federal Northwest, Richland, Washington.  
25  
26 NUREG-0892, *Safety Evaluation Report (Related to the Operation of WPPSS Nuclear Project) No. 2*,  
27 Supplement No. 1, U.S. Nuclear Regulatory Commission, Washington, D.C.  
28  
29 ICBO, 1996, "Earthquake Regulations", *Uniform Building Code*, UBC Section 2312, International  
30 Conference of Building Officials, Whittier, California.  
31  
32 PNNL-6415, *Hanford Site National Environmental Policy Act (NEPA) Characterization*, Revision 8,  
33 Pacific Northwest National Laboratory, Richland, Washington.  
34  
35 WHC-SD-WM-SP-0011, Rev. 0, 1996, *Immobilized High Level Waste Interim Storage Path Forward*,  
36 Westinghouse Hanford Company, Richland, Washington.



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Figure 1. Hanford Site.

Figure 2. Immobilized High-Level Waste Interim Storage Unit Site Plan.

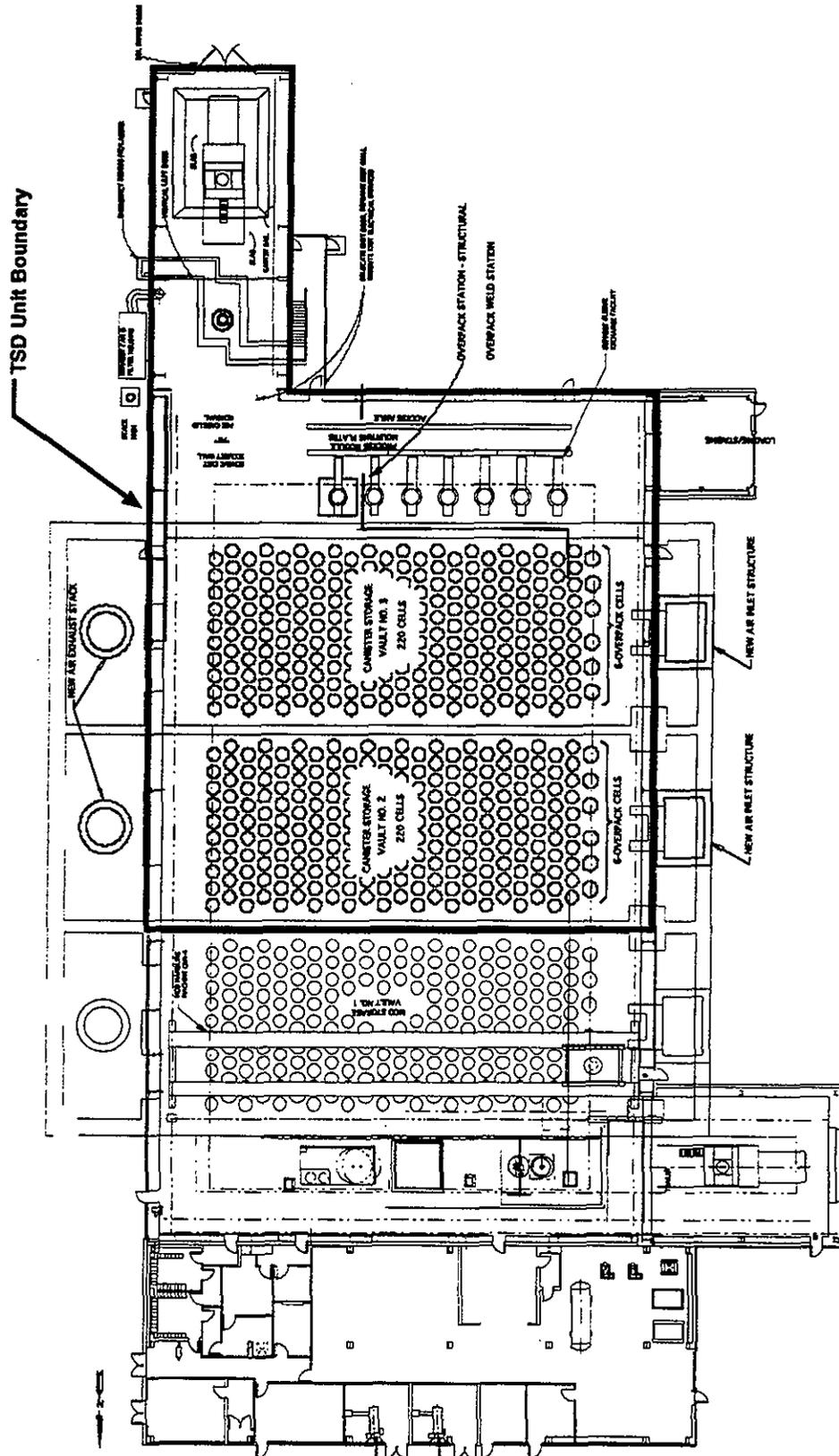


CSB = Canister Storage Building 212-H

H98070121.1

NOI  
IHLW Interim Storage Unit  
01/99

H-86060028.18



FACILITY FLOOR PLAN

Figure 3. Immobilized High-Level Waste Interim Storage Unit Layout.

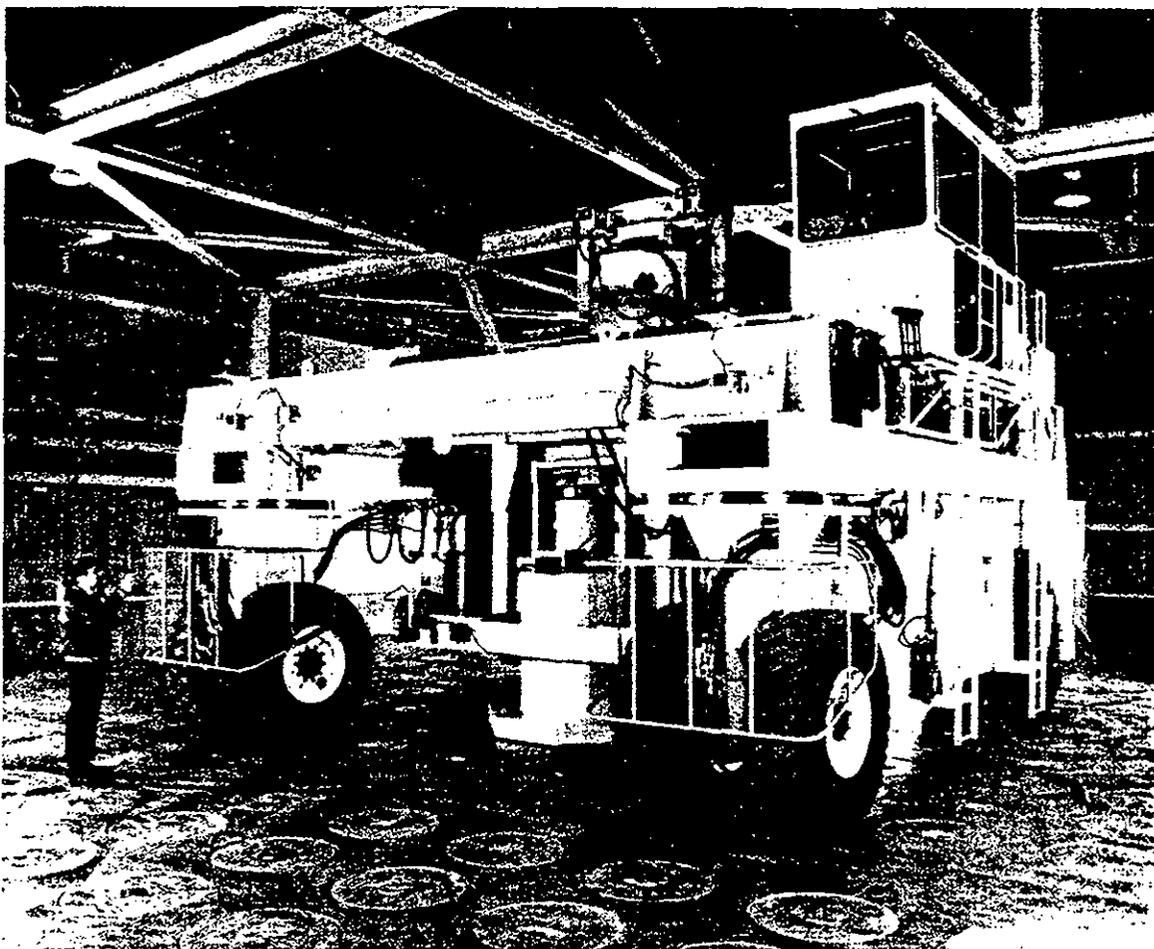
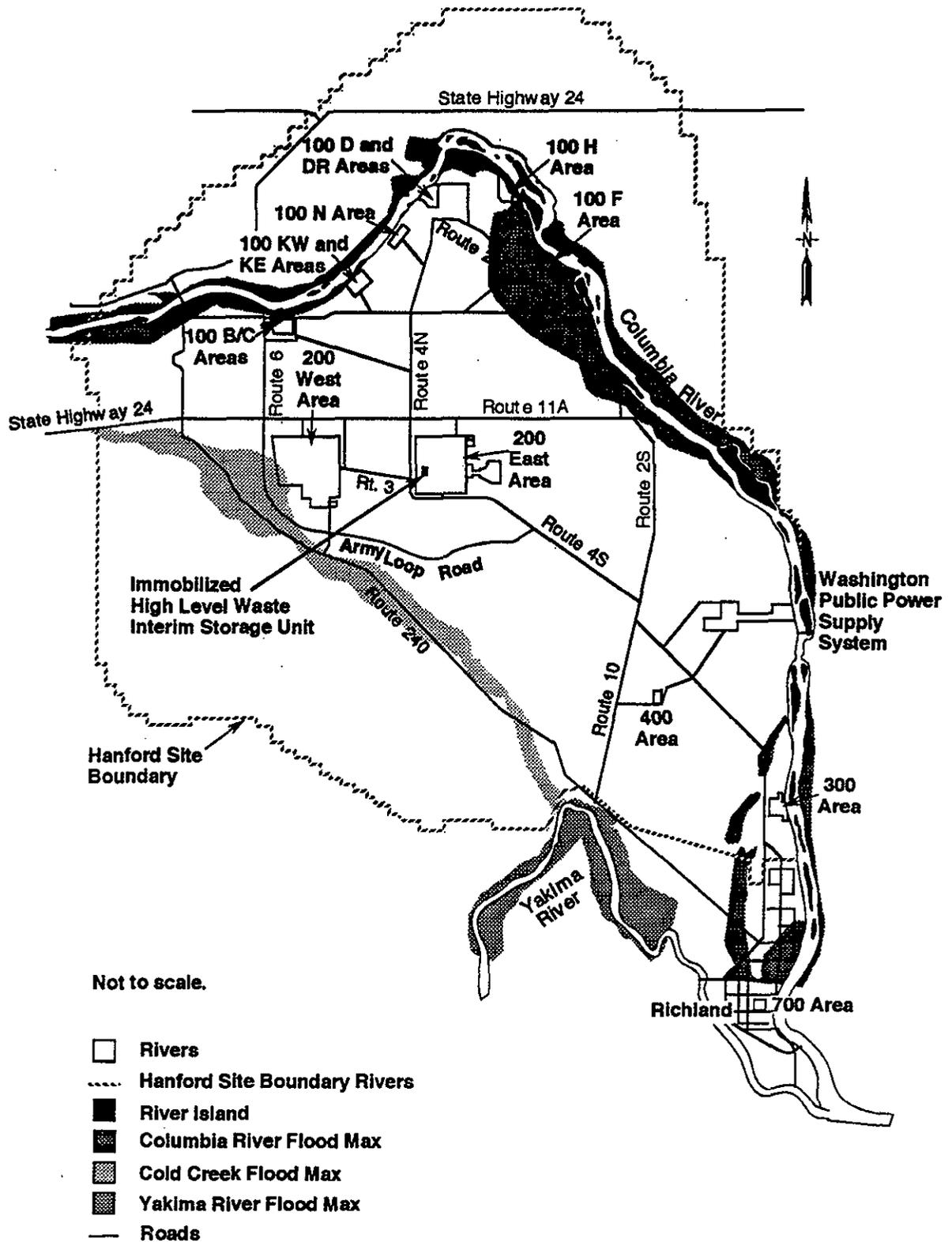


Figure 4. Shielded Canister Transporter (typical).



H9606026.16R1

Figure 5. Probable Maximum Flood of the Columbia River, Yakima River, and Cold Creek (adapted from DOE/EIS-0222).

**APPENDICES**

- 1
- 2
- 3
- 4 A LOCATION MAPS
- 5
- 6 B STATE ENVIRONMENTAL POLICY ACT DOCUMENTATION
- 7
- 8 C FORMAL NOTICES OF VIOLATION AND/OR NOTICES OF PENALTY

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**APPENDIX A**

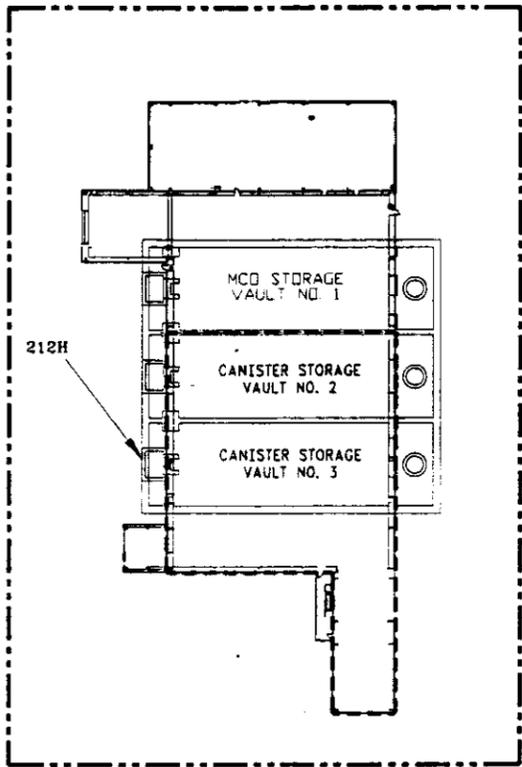
**LOCATION MAPS**

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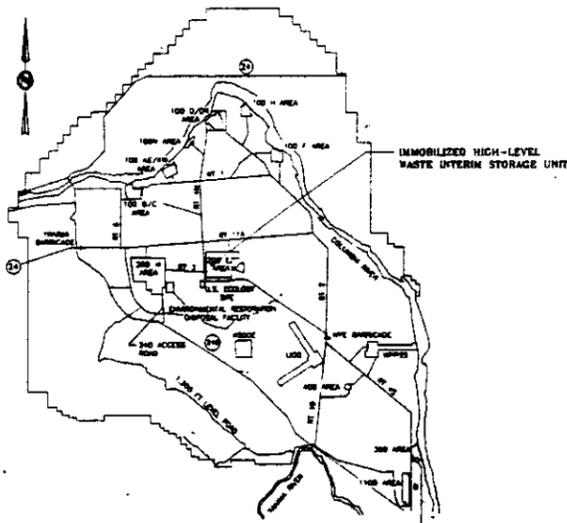
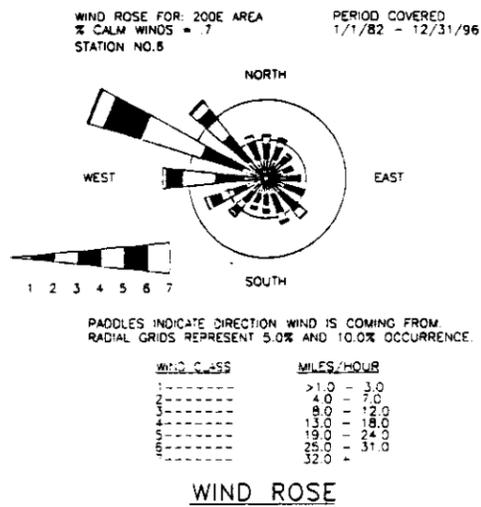
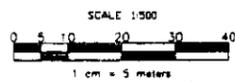
**APPENDIX A**

**CONTENTS**

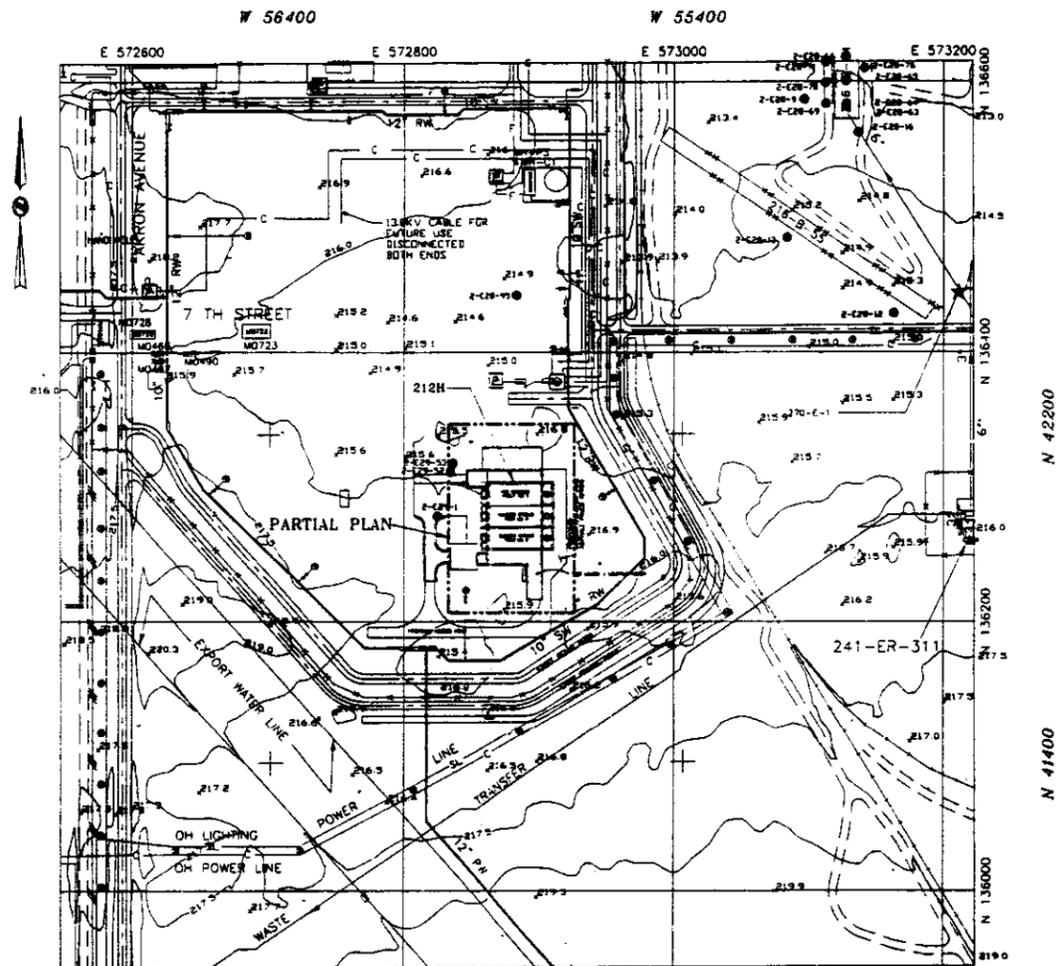
- H-6-958 General Overview of Hanford Site.
- H-13-000287 Immobilized High-Level Waste Interim Storage Unit Topographic Map.



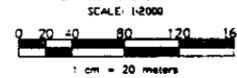
PARTIAL PLAN



KEY PLAN  
SCALE: NONE



SITE PLAN



GENERAL NOTES

- THIS MAP IS BASED ON AERIAL PHOTOGRAPHY FROM ON 6-24-88. THE ORIGINAL TOPOGRAPHIC MAP WAS PREPARED BY METTRICK & COMPANY AND CERTIFIED TO MEET NATIONAL MAP ACCURACY STANDARDS. OFFICIAL COPIES OF THE METTRICK MAPS THAT SHOW THE CERTIFICATE ARE LOCATED IN THE LOCKHEED MARTIN ENGINEERING FILES AS DRAWING NUMBERS H-2-78476 SHEET 1 AND H-2-78477 SHEET 1 THRU 37. NAMES OF ADDITIONAL FEATURES AND THE TITLE BLOCK WERE ADDED BY WESTINGHOUSE HANFORD COMPANY.
- WASHINGTON STATE PLANE COORDINATE SYSTEM: THE OFFICIAL COORDINATE SYSTEM AS DEFINED BY THE REVISED CODE OF WASHINGTON (RCW). THE HANFORD SITE LIES WITHIN THE WASHINGTON COORDINATE SYSTEM, SOUTH ZONE. THIS GRID COVERS THE ENTIRE SITE AND USES X (EASTINGS) AND Y (NORTHINGS) COORDINATES. HORIZONTAL DATUM: NAD-83 (LAMBERT PROJECTION). WASHINGTON STATE PLANE COORDINATES ARE SHOWN IN METERS. CONTOUR INTERVAL: 1.5 METERS.
- HANFORD PLANT GRID: A LOCAL GRID SYSTEM WITH ITS INITIAL POINT NORTHEAST OF THE 400 AREA. IT COVERS 200 EAST AND 200 WEST AREA AS WELL AS GENERAL SITE WORK SUCH AS WELLS AND BURIAL GROUNDS. HANFORD COORDINATES ARE SHOWN IN FEET.
- PARTIAL PLAN SHOWS TREATMENT STORAGE AND DISPOSAL UNIT BOUNDARY.



THIS MAP IS TO BE USED FOR REFERENCE PURPOSES ONLY.  
DO NOT USE THIS MAP FOR CONSTRUCTION PURPOSES.



LEGEND

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>47,000 HANFORD PLANT COORDINATES (FEET)</li> <li>42,000</li> <li>137,250 WASHINGTON STATE COORDINATES (METERS)</li> <li>138,000</li> <li>INDEX CONTOUR (METERS)</li> <li>INTERMEDIATE CONTOUR</li> <li>APPROVED ROAD</li> <li>UNAPPROVED ROAD</li> <li>RAILROADS</li> <li>SECURITY, WARNING, MISC. FENCES</li> <li>POST &amp; CHAIN (CRB, BURIAL GROUND FENCES)</li> <li>PERIMETER FENCES</li> </ul> | <ul style="list-style-type: none"> <li>BUILDINGS/STRUCTURES &amp; TOWERS</li> <li>242A BUILDING NUMBER</li> <li>MOBILE OFFICES</li> <li>BRUSH</li> <li>WELL</li> <li>TANKS</li> <li>CRB</li> <li>BURIAL GROUND</li> <li>10" SW SANITARY WATER</li> <li>12" RW RAW WATER</li> <li>FIRE HYDRANT</li> <li>POWER POLE</li> <li>WATER VALVE</li> </ul> |
|---|---|

REV. NO.	TITLE	REV. NO.	TITLE

U.S. DEPARTMENT OF ENERGY Nuclear Operations Office Piper District Northwest	
<b>IMMOBILIZED HIGH-LEVEL WASTE INTERIM STORAGE UNIT TOPOGRAPHIC MAP</b>	
DATE: 11/21/98	SCALE: 1:2000
PROJECT: H-13-000287-0	

H-13-000287-1-1-0



Insert  
drawings

**APPENDIX B**

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**STATE ENVIRONMENTAL POLICY ACT DOCUMENTATION**

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**Department of Energy**  
**Richland Operations Office**  
**P.O. Box 550**  
**Richland, Washington 99352**

98-EAP-472

SEP 01 1998

Mr. Mike Wilson, Program Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
P.O. Box 47600  
Olympia, Washington 98504

Dear Mr. Wilson:

**WASHINGTON STATE ENVIRONMENTAL POLICY ACT (SEPA) DOCUMENTATION  
FOR INTERIM STORAGE OF VITRIFIED HANFORD SITE IMMOBILIZED HIGH-LEVEL  
WASTE (IHLW) IN THE 200 EAST AREA CANISTER STORAGE BUILDING (CSB)**

- References: (1) "Supplement Analysis for the Tank Waste Remediation System," DOE/EIS-0189-SA2, dated May 1998.
- (2) "Record of Decision for the Tank Waste Remediation System, Hanford Site, Richland, Washington," 62 FR 8693, dated February 26, 1997.
- (3) "Tank Waste Remediation System, Hanford Site, Richland, Washington, Final Environmental Impact Statement," DOE/EIS-0189, dated August 1996.

The State of Washington Department of Ecology (Ecology) Dangerous Waste Regulations, Washington Administrative Code (WAC) 173-303-281, requires that dangerous waste facility owners and/or operators submit a Notice of Intent (NOI) before submittal of a Part A, Form 3, permit application for proposed or expanded dangerous waste treatment, storage, and/or disposal units on the Hanford Site. The proposal is for expansion of container storage at the Hanford Site to store vitrified mixed waste in the IHLW Interim Storage Unit. The IHLW Interim Storage Unit will use the existing CSB in the 200 East Area. Additional details regarding the unit are provided in the NOI.

Other environmental regulations, in concert with WAC requirements, also must be addressed. The National Environmental Policy Act (NEPA) requires Federal agencies to analyze the potential environmental impacts of their proposed actions to assist the agency in making informed decisions. A similar Washington State law, SEPA, requires state agencies, including Ecology, to analyze environmental impacts before making decisions that could impact the environment. Because NEPA and SEPA requirements are similar, the U.S. Department of Energy (DOE) and Ecology co-prepared the Tank Waste Remediation System (TWRS), Hanford Site, Richland, Washington, Final Environmental Impact Statement (EIS), Reference (3) to streamline the environmental review process. In the Record of Decision, Reference (2), DOE and Ecology determined that the high-level tank waste would be vitrified and sent to onsite

SEP 01 1998

Mr. Mike Wilson  
98-EAP-472

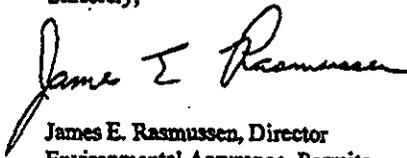
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interim storage, using the CSB. DOE would be the owner and operator of the interim storage facility. Current TWRS waste management planning prompted the DOE Richland Operations Office (RL) to prepare a supplement analysis concerning the TWRS EIS. The supplement includes discussion of potential environmental impacts for onsite interim storage of IHLW.

Based upon the TWRS EIS and supplement analysis, no additional environmental review, under NEPA, for the interim storage of IHLW is warranted at this time.

If you have any questions, please contact Carolyn Haass on (509) 372-2731 or Paul Dumigan on (509) 376-6667.

Sincerely,



James E. Rasmussen, Director  
Environmental Assurance, Permits,  
and Policy Division

MSD:CCH

cc: J. R. Wilkinson, CTUIR  
Donna Powauke, Nez Perce Tribe  
Russell Jim, YIN  
W. D. Adair, DESH  
S. L. Dahl, Ecology  
S. Alexander, Ecology  
A. M. Umek, FDH  
H. L. Boston, LMHC

**APPENDIX C**

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**FORMAL NOTICES OF VIOLATION AND/OR NOTICES OF PENALTY**

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This appendix only contains formal notices of violation and/or notices of penalty, in accordance with WAC 173-303-281.

**HANFORD SITE  
COMPLIANCE VIOLATIONS AND  
RESPONSE SUMMARY**

01/05/99

Date Received: 09/24/98

Agency: Ecology

**SUMMARY:**

Ecology issued Administrative Order 98NW-009 on September 24, 1998, requiring RL, FDH, and LMHC to comply with RCW 70.105, WAC 173-303, and by reference 40 CFR by taking certain prescribed actions. The prescribed actions pertain to documenting appropriate leak detection at each of the twenty-eight double shelled tanks at Hanford.

**RESPONSE(S):**

Following senior level discussions, the Attorney General of Washington issued a stay of Order 98NW-009. The stay was extended until January 29, 1999, to aid in the process of settlement of the issues in the appeal of that order to be filed by the appellants to the PCHB.

No formal decision from the PCHB has been received to date.

---

Date Received: 07/23/98

Agency: Ecology

**SUMMARY:**

Ecology assessed a Penalty 98NW-007 against RL, FDH, and LMHC in the amount of \$75,600 under the provisions of the RCW 70.105.080. RL, FDH, and LMHC failed to provide a leak detection system for double-shell tanks SY 101, 102, and 103 capable of detecting a leak from the primary or secondary structure of these tanks within 24 hours.

**RESPONSE(S):**

RL submitted an Application for relief of Penalty, 98NW-007, which was received by Ecology on August 7, 1998. After a review of the application, Ecology formally denied the application in writing on September 24, 1998. The denial allowed the petitioners to appeal to the PCHB within 30 days of receipt of denial. RL in turn appealed the denial to the PCHB on September 23, 1998.

No formal decision from the PCHB has been received to date.

---

Date Received: 07/10/98

Agency: WDOH

**SUMMARY:**

WDOH issued a NOV to DOE for violations of radioactive air emissions regulations at the 296-A-42 major emission unit. This violation involved the bypassing of required controls and the lack of any notification to the WDOH concerning the subsequent loss of integrity of the filtration system. With a potential to emit of over 3,000 mrem/year to the MEI, that failure could have resulted in a significant offsite impact.

**RESPONSE(S):**

Compliance Order #1 was met with the submittal of required documentation by RL letter on August 21, 1998. Compliance Orders #2 and #3 were met with the submittal of required documentation by RL letter on August 10, 1998.

No further response from Ecology has been received to date.

---

Date Received: 05/13/98

Agency: WDOH

**SUMMARY:**

WDOH issued a NOV under RCW 70.94.332 and WAC 246-247-100 for violation of radioactive air emissions regulations in the operation of the Plasma Arc Furnace in the 324 Building Waste Technology Engineering Laboratory, located in the 300 Area. The NOV also contained a Compliance Order consisting of three requirements.

**RESPONSE(S):**

Compliance Order, requirement #3 directed RL to notify WDOH of discrepancies between Hanford Site NOCs and actual or planned work. The due date for the required notification was 8-25-98. A report notifying WDOH of the required information was transmitted to WDOH on 8-20-98.

The report (dated 8-20-98) will be reviewed by WDOH to determine if revisions need to be made to Hanford Site NOCs. The due dates for any such revisions will be negotiated between RL and WDOH.

---

Date Received: 02/25/98

Agency: EPA

**SUMMARY:**

On February 25, 1998, EPA issued a NOV to DOE for violating requirements defined in the ERDF Record of Decision

**RESPONSE(S):**

BHI submitted revised calculations to WDOH showing the adequacy of the monitoring system for 50,000 square foot of exposed face. WDOH reviewed the calculations and have given verbal concurrence that the calculations can be used as basis for the adequacy of existing monitors for this revised operating mode. IDW management issues and changes in procedures and operating practices were revised to address the IDW management issues raised by Ecology in the NOV.

No formal notice of closure has been received from the EPA.

---

Date Received: 09/16/97

Agency: Ecology

**SUMMARY:**

In 1997, a chemical mixture stored for over a year in a tank located in the Plutonium Reclamation Facility underwent a spontaneous reaction rapidly generating sufficient pressure to violently rupture the tank. After concluding its investigation of the incident, Ecology served DOE's Richland Operations Office a NOP and NOC demanding payment of the sum of \$110,000 for, inter alia, alleged violation of regulations prohibiting improper storage of hazardous waste. Corrective measures (CM) described at the end of the NOC letter were developed after the meetings regarding on-going actions being performed by DOE and its contractors.

**RESPONSE(S):**

In January 1998, Ecology performed a compliance inspection at PFP. It is DOE's understanding that Ecology intends to incorporate further discussion regarding the disposition of the items subject to CM 6 into closure actions to be taken following issuance of the Ecology compliance inspection report. While DOE has been waiting issuance of Ecology's compliance inspection report, DOE pursued field activities to disposition the remaining items. No report has been received concerning this Ecology inspection

On February 2, 1998, DOE transmitted a letter to Ecology identifying the remaining CMs and requested an extension date of July 1, 1998. On March 16, 1998, DOE sent a letter to Ecology supplying a status related to the disposition of the items identified in CM 4. This letter also transmitted the emergency preparedness documentation being submitted for the closure of CM 1 and 2 for Ecology's review and comment.

On April 15, 1998, DOE submitted final documentation to close out CM 1 and 2 that will become effective on July 1, 1998.

DOE responded to the NOP by filing with Ecology an Application for Relief from Penalty, which Ecology denied on January 7, 1999. DOE has 30 days from January 7, 1999 to appeal to the Pollution Control Hearings Board.

---

Date Received: 11/07/96  
Agency: Ecology

**SUMMARY:**

On September 27, 1996, Ecology conducted an investigation of the 222-S Laboratory regarding a September 13, 1996 incident: Chemicals were mixed resulting in a breach of the container and a release of hazardous materials. During the investigation Ecology expressed concerns with the management of satellite accumulation areas (SAAs) and verification of process waste generated outside of the 222-S Laboratory. Formal correspondence was sent to DOE, FDH, and RFSH from Ecology stating that Ecology was not pursuing formal enforcement. Six violations and one concern were identified.

**RESPONSE(S):**

DOE issued a formal response to Ecology on February 3, 1997, indicating completed status for Corrective Measures 3, 4, 6, and portions of 2 and provided status on the remaining corrective measures

Ecology continued the inspection of the 222-S Laboratory on February 13, 1997. Following the inspection, operations of the liquid waste generating activities at the 222-S Laboratory were suspended by management. This decision was voluntary and a controlled method-by-method resumption of analytical work was implemented, which resulted in significant improvements in all waste management activities. Ecology was informed of the new process.

In February 1998, DOE and Ecology agreed in principal to a negotiated settlement of the alleged violations and pending fine. DOE and 222-S Laboratory will pay \$35,000 for a nature preserve. The 222-S Laboratory will be required to follow the operational criteria for SAA management in the 222-S Laboratory, as stipulated by Ecology in the settlement agreement. \$40,000 payment suspended during a 2-year period provided there are no material violations at the 222-S Laboratory.

---

Date Received: 07/24/96  
Agency: Ecology

**SUMMARY:**

Ecology performed an inspection of the 306-E Facility to follow up an Ecology inspection that occurred on September 14, 1995. One of the issues that Ecology had at that time concerned material being stored in two cabinets that contained what Ecology said appeared to be incompatible chemicals that could pose a threat to human health and the environment. Ecology issued a VCL on July 24, 1996, for storage of incompatible waste.

Ecology issued a formal NOP to DOE and WHC that included a \$20,000 fine concerning storage of incompatible waste.

**RESPONSE(S):**

A formal response letter and payment of penalty was sent from WHC to Ecology on October 21, 1996. This enforcement action is considered closed. On August 1, 1997, Ecology transmitted a letter of closure for the 306-E Facility stating that the corrective measures have been satisfied.

---

Date Received: 03/06/96

Agency: Ecology

**SUMMARY:**

Ecology issued a NOV (DE 96NM-033) to DOE alleging violation of WAC 173-400-141, -110, and -115 dealing with PSD permitting, new source review, and new source performance standards under Washington's Clean Air Act.

The NOV was issued on March 6, 1996. Ecology alleges that DOE is in violation of WAC 173-400-141 for failure to apply for and obtain the required state PSD permit and then operate the 300 Area boiler package without the permit, and in violation of WAC 173-400-115 for failure to meet new source performance standards for SO<sub>2</sub> emission limits from the boiler. Construction of the 300 Area package boiler commenced in September 1989. Ecology determined that construction of the boiler constituted a major modification of the source subject to the PSD permit requirements. Additionally, the boiler has burned No. 6 fuel oil, and Ecology estimates that the SO<sub>2</sub> emission rates exceed the NSPS's SO<sub>2</sub> emission limits.

**RESPONSE(S):**

On August 12, 1996, Ecology transmitted their Agreed to Order to close this NOV. The Order proposes to close the NOV without fines or penalties if followed by DOE.

---

Date Received: 01/19/96

Agency: Ecology

**SUMMARY:**

Ecology issued a Notice of Penalty Incurred and Due (No. DE 96-NW-001) to DOE and BHI. The penalty was assessed based on a violation revealed from an investigation into dangerous waste management activities at the 183-H basins closure project. A \$5,000 fine was assessed against DOE and BHI.

**RESPONSE(S):**

The penalty was paid and the NOV is considered closed.

---

Date Received: 05/30/95

Agency: Ecology

**SUMMARY:**

On May 30, 1995, Ecology issued a Notice of Penalty Incurred and Due (No. DE 95NW-127) to DOE and PNL after a pressurized drum that was improperly opened damaged the facility, caused worker contamination, and released radioactive material.

**RESPONSE(S):**

On August 7, 1995, Ecology transmitted a letter to DOE closing this action. This item was closed before initiation of this tracking system.

---

Date Received: 03/09/94

Agency: Ecology

**SUMMARY:**

Ecology issued an Order (No. DE 94NM-063) and Notice of Penalty Incurred and Due (No. DE 94NM-062) against the COE for disposing dangerous waste at the Richland Landfill, and against DOE for not providing adequate dangerous waste training to COE employees. Ecology assessed a penalty of \$9,500 against DOE and a \$6,000 penalty against COE. The fines stem from the accidental dumping of dangerous waste at the landfill as part of the cleanup activity ongoing at the North Slope. The incident occurred late in 1993.

**RESPONSE(S):**

On April 15, 1994, Ecology sent a letter to DOE and COE stating satisfaction that the corrective items identified in the Order had been completed, and approved the restart of dangerous waste management work on the North Slope. Ecology also requested in the letter that before the generation or potential generation of hazardous or mixed waste at identified past-practice waste sites, that Waste Control Plans be submitted to them for approval. Ecology stated that the "letter serves as a notice of completion of Order requirements," except for the ongoing requirements of the Waste Control Plans, and stated that the "entire case will be resolved upon payment" of the Penalty. This item was closed before initiation of this tracking system.

---

Date Received: 03/10/93

Agency: Ecology

**SUMMARY:**

Ecology issued a CO and NOP Incurred and Due for failure to adequately designate approximately 2,000 containers of solid waste. The NOP stipulated a penalty of \$100,000. DOE and WHC disputed portions of the Order and Notice of Penalty.

**RESPONSE(S):**

DOE, WHC, and Ecology agreed to resolutions to the disputed portions, which were agreed to by the Washington State PCHB, which modified the Order and Notice of Penalty.

The settlement agreement for the Compliance Order required submittal of a waste analysis plan (WAP) to confirm or complete the designation of the waste in question. Extensive negotiations regarding the content of the WAP occurred between DOE, WHC, and Ecology, and final approval was granted by Ecology on November 1, 1993. Confirmation or completion of the waste designation, following the process established by the WAP, was required by September 1, 1994.

Negotiations regarding an alternative to the payment of the \$100,000 penalty resulted in an agreement as amended July 7, 1995. This agreement allows DOE to set up an Environmental Protection Scholarship in the amount of \$40,000 at Columbia Basin College. The agreement also allows payment to PNL and the Washington Department of Wildlife to plan for and carry out a sagebrush revegetation effort on the Hanford Arid Lands Ecology Reserve, and to work on a Priority Habitat and Species Map for Hanford.

On August 24, 1994, DOE transmitted a package to Ecology that completed the actions required by the Order. This item was closed before initiation of this tracking system.

---

Date Received: 02/03/93

Regulator: EPA

**SUMMARY:**

EPA issued a Compliance Order to DOE alleging noncompliance with the National Emission Standards for Hazardous Air Pollutants for radionuclides.

**RESPONSE(S):**

EPA and DOE negotiated a FFCA on February 7, 1994, to allow DOE to confirm compliance or meet the compliance requirements of 40 CFR 61, Subpart H. The FFCA superseded the compliance order and this will no longer be tracked as an open item. This item was closed before initiation of this tracking system.

---

Date Received: 02/02/93

Agency: WDOH

**SUMMARY:**

WDOH issued a NOV for radioactive air emission issues related to the proposed fuel encapsulation activities at the 100-KE fuel storage basins. The NOV stated that DOE and WHC have initiated work that directly supports fuel encapsulation without approval of WDOH. The NOV formally directed DOE and WHC to stop all work at the 100-KE Basins immediately.

**RESPONSE(S):**

DOE and WHC formally responded to the NOV, and a Notice of Construction permit was issued in the fall of 1993. This item was closed before initiation of this tracking system.

---

Date Received: 01/08/93

Agency: Ecology/EPA

**SUMMARY:**

Hanford Federal Facility Agreement and Consent Order (Agreement) Major Milestone M-14-00 required the construction and initiation of operation of a mixed waste laboratory by January 31, 1992. This milestone was not met as originally established. The DOE acknowledged that Agreement procedures for modification of the Agreement were not followed before a hold was placed on construction and steps were taken to obtain commercially available laboratory services.

**RESPONSE(S):**

The DOE initiated the Agreement dispute resolution procedures that proceeded to the Senior Executive Committee level, which determined that the DOE had violated Major Milestone M-14-00. The resulting settlement between DOE, EPA, and Ecology assessed DOE a fine of \$100,000 and imposed several subsequent commitments along with a revised M-14-00 series of milestones. On March 10, 1994 the monetary penalty was paid and compliance with the associated commitments has been largely maintained.

---

Date Received: 10/23/92

Agency: EPA

**SUMMARY:**

The EPA issued a Notice of Noncompliance based on an inspection conducted in September 1991. One violation related to the cleanup of a PCB spill was identified. On November 13, 1992, DOE responded to the Notice of Noncompliance.

**RESPONSE(S):**

DOE stated in the response that the cleanup of the PCB spill was completed on September 28, 1991, not October 1, 1991, as alleged in the Notice of Noncompliance. DOE also outlined corrective actions to ensure that cleanup of PCB spills are initiated and completed within the required 48 hours.

On November 25, 1992, EPA sent a letter to DOE stating they were satisfied with DOE's response and corrective actions and closed the issue. This item was closed before initiation of this tracking system.

---

Date Received: 04/25/90

Agency: DOT

**SUMMARY:**

On April 25, 1990, the DOT issued a Federal Railroad Administration Probable NOV against WHC for violating the Hazardous Materials Transportation Act, and fined WHC \$3,000.

**RESPONSE(S):**

The procedures were corrected to the satisfaction of DOT and, after negotiations, the fine was reduced to \$2,100, which was paid by WHC. This item was closed before initiation of this tracking system.

---

Date Received: 07/20/89

Agency: Ecology

**SUMMARY:**

Ecology issued DOE and WHC a NOV based on their July 20, 1989, inspection of the 216-A-29 Ditch, 216-B Pond, and the Central Waste Complex.

Issues included the following; (1) the need to construct, at a minimum, a continuous single-strand chain fence with appropriate warning signs around the 216-A Ditch by September 30, 1989; (2) four radiation warning signs were found unsecured on the ground near the 216-A-29 Ditch and 216-B Pond facilities; and (3) 10 waste drums at Central Waste Complex were found to have exceeded the 90-day accumulation period while at the generating facility.

**RESPONSE(S):**

A continuous single-strand barrier was installed around the 216-A-29 Ditch and 216-B Pond. The unsecured signs have been reposted. Periodic inspections will be conducted to identify necessary corrective actions such as unsecured signs.

The 10 waste drums that exceeded the 90-day accumulation period were identified as originating from PFP. These drums were partially characterized and transferred to the Central Waste Complex for proper storage. A letter identifying the dangerous and mixed waste satellite and less-than-90-day accumulation areas on the Hanford Site was transmitted to Ecology. This item was closed before initiation of this tracking system.

---

Date Received: 06/12/89

Agency: Ecology

**SUMMARY:**

Ecology issued DOE and WHC a NOV based on their June 12, 1989, inspection of the 183-H Basins and 216-S-10 Pond and Ditch.

Issues included the following; (1) the need to construct at least a continuous single-strand rope fence with appropriate warning signs around the 216-S-10 Pond and Ditch before August 15, 1989; and (2) the need to stabilize two corroded and leaking drums containing mixed waste located at the 183-H Basins.

**RESPONSE(S):**

A single-strand barrier rope was installed with the appropriate warning signs around the 216-S-10 Pond and Ditch. The contents of the leaking drums were removed and repackaged in appropriately prepared drums. An inspection was conducted on the other drums containing dangerous waste at the 183-H facility and no other irregularities were noted. The Central Waste Complex, which receives 183-H dangerous waste drums, was inspected and no irregularities were noted. An analysis also was conducted on the probable cause of the corrosive material found on the drums. The results were presented to Ecology. This item was closed before initiation of this tracking system.

---

Date Received: 04/11/89

Agency: Ecology

**SUMMARY:**

Ecology issued DOE and WHC a NOV based on their April 10-11, 1989, inspection of B Pond and the Nonradioactive Dangerous Waste Landfill.

Issues included the following; (1) the need to construct at least a continuous single-strand rope fence with warning signs around B Pond and each of the three associated lobes; (2) the need to repair a 25 foot breach in the security fence surrounding the Nonradioactive Dangerous Waste Landfill; and (3) the need to evaluate the wooden pier over the 216-A-29 Ditch for stability and to establish load limits for its use.

**RESPONSE(S):**

The single-strand rope fence with appropriate warning signs has been installed around B Pond and its three lobes. The fence at the Nonradioactive Dangerous Waste Landfill has been repaired. The wooden pier over the 216-A-29 Ditch has been taken out of service, "DANGER - KEEP OFF" signs have been posted, and the structures have been barricaded. This item was closed before initiation of this tracking system.

---

## List of Acronyms:

BHI	Bechtel Hanford, Inc.
CAA	Clean Air Act
CM	Corrective Measure(s)
CO	Compliance Order
CFR	Code of Federal Regulations
COE	U.S. Army Corps of Engineers
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
DST	Double Shell Tank
Ecology	State of Washington Department of Ecology
EPA	Environmental Protection Agency
ERDF	Environmental Restoration Disposal Facility
FDH	Fluor Daniel Hanford
FFCA	Federal Facilities Compliance Agreement
LMHC	Lockheed Martin Hanford Company
MEI	Maximally Exposed Individual
NOC	Notice of Correction
NOV	Notice of Violation
PCB	Polychlorinated Biphenols
PCHB	Pollution Control Hearings Board
PFP	Plutonium Finishing Plant
PRF	Plutonium Reclamation Facility
PSD	Prevention of Significant Deterioration
RCW	Revised Code of Washington
RFSH	Rust Federal Services of Hanford
SAA	Satellite Accumulation Area
VCL	Voluntary Compliance Letter
WAC	Washington Administrative Code
WDOH	State of Washington Department of Health
WHC	Westinghouse Hanford Company