**Dangerous Waste Permit Application**

**Part A Form**

---

**I. This form is submitted to:**

- Request modification to a final status permit (commonly called a “Part B” permit)
- Request a change under interim status
- Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit).
- Establish interim status because of the wastes newly regulated

List waste codes:

---

**II. EPA/State ID Number**

| W | 7 | 8 | 9 | 0 | 0 | 0 | 8 | 9 | 6 | 7 |

---

**III. Name of Facility**

US Department of Energy – Hanford Facility

---

**IV. Facility Location (Physical address not P.O. Box or Route Number)**

**A. Street**

Refer to Permit Attachment 2 – Hanford Facility Permit Legal Description

**City or Town** | **State** | **ZIP Code**
--- | --- | ---
Near Richland | WA | 

**County Code (if known)** | **County Name**
0 | Benton

**B. Land Type** | **C. Geographic Location**
| Latitude (degrees, mins, secs) | Longitude (degrees, mins, secs) | **D. Facility Existence Date**
| Month | Day | Year |
F | Refer to TOPO Map (Section XV.) | 1 | 1 | 19 | 19 | 8 | 0 |

---

**V. Facility Mailing Address**

**Street or P.O. Box**

P.O. Box 450

**City or Town** | **State** | **ZIP Code**
--- | --- | ---
Richland | WA | 99352

---

ECY 030-31 (06/2003)
VI. Facility contact (Person to be contacted regarding waste activities at facility)

<table>
<thead>
<tr>
<th>Name (last)</th>
<th>(first)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vance Smith</td>
<td>Kevin Brian</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Phone Number (area code and number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manager</td>
<td>(509) 372-2315</td>
</tr>
</tbody>
</table>

Contact Address

<table>
<thead>
<tr>
<th>Street or P.O. Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.O. Box 450</td>
</tr>
</tbody>
</table>

City or Town | State | ZIP Code |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland</td>
<td>WA</td>
<td>99352</td>
</tr>
</tbody>
</table>

VII. Facility Operator Information

A. Name

<table>
<thead>
<tr>
<th>Department of Energy</th>
<th>Owner/Operator</th>
<th>Phone Number (area code and number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bechtel National, Inc.</td>
<td>Co-Operator for WTP</td>
<td>(509) 372-2315</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Street or P.O. Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.O. Box 450</td>
</tr>
</tbody>
</table>

City or Town | State | ZIP Code |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland</td>
<td>WA</td>
<td>99352</td>
</tr>
</tbody>
</table>

B. Operator Type

F

C. Does the name in VII.A reflect a proposed change in operator?

Yes [ ] No [x]  

If yes, provide the scheduled date for the change:

Month [ ] Day [ ] Year [ ]

D. Is the name listed in VII.A. also the owner? If yes, skip to Section VIII.C.

Yes [ ] No [x]

Footnote From Section VII

* Asterisk indicates information for Bechtel National, Inc., the Co-Operator for WTP

VIII. Facility Owner Information

A. Name

<table>
<thead>
<tr>
<th>U.S. Department of Energy</th>
<th>Owner/Operator</th>
<th>Phone Number (area code and number)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(509) 372-2315</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Street or P.O. Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.O. Box 450</td>
</tr>
</tbody>
</table>

City or Town | State | ZIP Code |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland</td>
<td>WA</td>
<td>99352</td>
</tr>
</tbody>
</table>

B. Owner Type

F

C. Does the name in VIII.A reflect a proposed change in owner?

Yes [ ] No [x]  

If yes, provide the scheduled date for the change:

Month [ ] Day [ ] Year [ ]

IX. NAICS Codes (5/6 digit codes)

<table>
<thead>
<tr>
<th>A. First</th>
<th>B. Second</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 6 2 2 1 1</td>
<td>9 2 4 1 1 0</td>
</tr>
</tbody>
</table>

Waste Treatment & Disposal | Administration of Air & Water Resource & Solid Waste Management Programs
### X. Other Environmental Permits (see instructions)

<table>
<thead>
<tr>
<th>A. Permit Type</th>
<th>B. Permit Number</th>
<th>C. Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>N O C I D 1 0 4 3</td>
<td>WAC 246-247, NOC Approval Rad Air (EMF)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 4 4</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 557)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 4 5</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 558)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 4 6</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 559)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 4 7</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 754)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 4 8</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 553)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 4 9</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 554)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 5 0</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 555)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 5 1</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 753)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 5 2</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 551)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 5 3</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 552)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 5 4</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 548)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 5 5</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 549)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 5 6</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 550)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 5 7</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 547)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 5 8</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 544)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 5 9</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 545)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 6 0</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 546)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 6 1</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 534)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 1 0 6 2</td>
<td>WAC 246-247, NOC Approval Rad Air (Unit 543)</td>
</tr>
<tr>
<td>E</td>
<td>N O C I D 9 4 7</td>
<td>WAC 246-247, NOC Approval Rad Air (Unplanned)</td>
</tr>
<tr>
<td>E</td>
<td>D E 1 6 N W P - 0 0 3</td>
<td>WAC 173-400/-460, Non-Radioactive Air Approval</td>
</tr>
<tr>
<td>E</td>
<td>D E 0 1 N W P - 0 0 3</td>
<td>WAC 173-400/-460, Non-Radioactive Air Approval</td>
</tr>
<tr>
<td>E</td>
<td>D E 0 2 N W P - 0 0 2</td>
<td>WAC 173-400/-460, Non-Radioactive Air Approval</td>
</tr>
<tr>
<td>E</td>
<td>D E 0 7 N W P - 0 0 4</td>
<td>WAC 173-400/-460, Non-Radioactive Air Approval</td>
</tr>
<tr>
<td>P</td>
<td>P S D - 0 2 - 0 1</td>
<td>WAC 173-400 Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>E</td>
<td>A O P 0 0 - 0 5 - 0 0 6</td>
<td>WAC 173-401, Hanford Site Air Operating Permit</td>
</tr>
<tr>
<td>E</td>
<td>W A G - 5 0 - 5 1 8 0</td>
<td>WAC 173-220/-216, Sand and Gravel General Permit</td>
</tr>
<tr>
<td>E</td>
<td>W A G - 5 0 - 5 1 8 1</td>
<td>WAC 173-220/-216, Sand and Gravel General Permit</td>
</tr>
<tr>
<td>E</td>
<td>S T 0 0 0 4 5 1 1</td>
<td>WAC 173-216, State Waste Discharge Permit</td>
</tr>
<tr>
<td>E</td>
<td>H A N 0 0 9</td>
<td>WAC 246-272A, Large On-Site Sewage Systems</td>
</tr>
<tr>
<td>E</td>
<td>H A N 0 1 3</td>
<td>WAC 246-272B, Large On-Site Sewage Systems</td>
</tr>
<tr>
<td>E</td>
<td>T S C A 2 0 0 0 8 3 1</td>
<td>40 CFR 761.61(c) TSCA approval Dated August 31, 2000.</td>
</tr>
</tbody>
</table>
XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)

Bechtel National Inc. (BNI) is in the process of completing constructing of the Waste Treatment Immobilization Plant (WTP) and preparing for operations; the WTP is permitted as Operating Group 10 under the Dangerous Waste Permit (DWP) Number WA7890008967. Currently, six (6) major facilities are being designed and constructed; the Low-Activity Waste (LAW) Facility, the High-Level Waste (HLW) Facility, the Pretreatment (PT) Facility, the Laboratory (Lab) Facility, the Balance of Facilities (BOF), and the Effluent Management Facility (EMF). During dangerous waste management operations, the WTP will chemically separate, treat, and immobilize radioactive and dangerous (mixed) waste through vitrification.

During mixed waste treatment operations, WTP will utilize two separate configurations. The first configuration, known as the Direct Feed LAW configuration, will allow pretreated mixed waste from the Tank Farms to be transferred directly from the Low-Activity Waste Pretreatment System (LAWPS) to the LAW Facility, bypassing the PT Facility. The low-activity waste will then be treated in the LAW Facility using the vitrification process. Effluents generated during the process will be treated in the EMF. In the second configuration, known as the baseline configuration, tank waste will be sent directly from the Tank Farms to the PT Facility. The mixed waste will then be pretreated and sent to either the HLW Facility or the LAW Facility, depending on the waste characterization. In both configurations, waste will be characterized prior to receipt at the WTP. The waste will only be transferred to WTP if it meets WTP’s waste acceptance criteria. While operating in the Direct Feed LAW configuration, WTP will not accept and/or treat mixed waste that carries the D001 (ignitable) waste code and/or the D003 (reactive) waste code. While operating in the baseline configuration, WTP may accept mixed waste that carries the D001 (ignitable) waste code and/or the D003 (reactive) waste code. Once waste has been received, process knowledge will be used to remove the D001 and D003 waste codes. Waste initially characterized as reactive and/or ignatible will only be stored in dangerous waste management units designed for these waste codes.

Process Codes S01, S02, S06, T01, T04, and X99 utilized in Sections XII and XIII are described below.

(S01)

At the WTP, a total of seven (7) container storage areas are permitted to store the dangerous/mixed waste in containers. Three (3) of the areas will be located in the HLW Facility, one (1) area will be located in the Lab, and three (3) areas are considered part of the BOF. The dangerous or mixed waste generated at the EMF and the LAW Facility will be managed in 90-day accumulation areas and satellite accumulation areas pursuant to the generator requirements (WAC-173-303-200) or may be transferred to the permitted WTP waste storage area. The Transportation Staging Area is also permitted for the staging (storage) of ILAW transporters with full ILAW containers ready to ship to the Integrated Disposal Facility (IDF) for disposal.

The 1,361,290 gallon Process Design Capacity for S01 listed in Section XII was calculated by multiplying the maximum surface area of all permitted container storage areas by the maximum waste container heights.

(S02)

A total of ninety-seven (97) tanks will be permitted to store dangerous/mixed waste. The PT Facility will have fifty-nine (59) tanks permitted to store dangerous/mixed waste; the LAW Facility will have twelve (12) tanks permitted to store dangerous/mixed waste; the HLW Facility will have fifteen (15) tanks permitted to store dangerous/mixed waste, the EMF will have nine (9) tanks permitted to store dangerous/mixed waste, and the Lab will have two (2) tanks permitted to store and/or treat dangerous/mixed waste. See Attachment 1 for a complete tank list.

The 5,717,000 gallon, which includes the EMF tank volume, Process Design Capacity for S02 in Section XII was calculated by summing up the total tank volumes. The total tank volumes are nominal and do not account for manufacturing tolerances, nozzles, and displacement of internals.
A total of twenty-two (22) containment building areas are permitted to store dangerous/mixed waste at the WTP. The PT Facility will have five (5) areas permitted to store dangerous/mixed waste, the LAW Facility will have six (6) areas permitted to store dangerous/mixed waste, and the HLW Facility will have ten (10) areas permitted to store dangerous/mixed waste. EMF will not have any containment building areas.

The 304712 cubic meters of containment building storage capacity for Process Design Code S06 in Section XII represents the maximum volume of dangerous/mixed waste that can be stored in all containment buildings which includes:

- areas where filled IHLW canisters (65.33 m³) and ILAW containers (109.42 m³) are cooled and stored,
- areas where failed melters are temporarily stored (LAW 299.38 m³)-(HLW 121.94 m³),
- areas where secondary wastes such as containers, uncontainerized process equipment, and various other items awaiting decontamination, treatment or repackaging are stored (115.8 m³).

A total of ninety-seven (97) tank treatment units will be permitted to treat dangerous/mixed waste at the WTP. The 9,000 gal/day Process Design Capacity for the T01 process code in Section XII was calculated using the baseline configuration using the volumetric flow from Tank Farms. The waste is received and separated at the Pretreatment Facility before it is sent to either the HLW Facility (0.17 ft³/min) or LAW Facility (0.64 ft³/min) for vitrification. The volumetric flow is calculated by adding the feed rate for HLW feed and LAW feed and converting the rate to gallons per day.

The nine (9) Direct Feed LAW Effluent Management Facility Process System (DEP) tanks/vessels that will be permitted for treatment, and corresponding rooms are:

- DEP-VSL-00001-Low-point drain vessel (ED-8001)
- DEP-VSL-00002-Evaporator feed vessel (E-0105)
- DEP-VSL-00003A-Evaporator concentrate vessel (E-0105)
- DEP-VSL-00003B-Evaporator concentrate vessel (E-0105)
- DEP-VSL-00003C-Evaporator concentrate vessel (E-0105)
- DEP-VSL-00004A-Overhead sampling vessel (E-0106)
- DEP-VSL-00004B-Overhead sampling vessel (E-0106)
- DEP-VSL-00005A-Process condensate lag storage vessel (E-0106)
- DEP-VSL-00005B-Process condensate lag storage vessel (E-0106)

Although the nine EMF tanks were added as treatment units to the Process Total Number of Units in Section XII, the tanks are not considered in the Process Design Capacity, as the baseline configuration is considered to be a bounding scenario for tank treatment in WTP operations.
A total of four (4) treatment units will be used to treat mixed waste through vitrification. The LAW Facility will have two (2) tanks (melters) and the HLW Facility will have (2) tanks (melters) permitted to treat the mixed waste via vitrification.

The 21,000 gal/day Process Design Capacity for T04 in Sections XII and XIII is based on the maximum rate that waste can be treated in all melters. The Process Design Capacity is additive and equal to the maximum volumetric flow into the LAW melters (1.52 ft³/min) and HLW melters (0.42 ft³/min) after glass formers are added. The combined volumetric flow is calculated by adding the flow rates of 1.52 ft³/min and 0.42 ft³/min then converting the rate to gallons per day for a total value of 20,898 gal/day rounded to 21,000 gal/day. The EMF will not have any treatment units.

A total of one hundred and eighty five (185) miscellaneous units (MUs) will be permitted to manage the dangerous / mixed waste at WTP. MUs are as follows by facility and listed in Attachment 2:

- EMF – 18
- LAW – 47 (including twenty (20) containment miscellaneous units)
- HLW - 61
- PTF - 59

A total of twenty (20) containment miscellaneous units will be permitted to manage the dangerous/mixed waste in LAW. See Attachment 3 for a list of the LAW containment miscellaneous units.

The Process Design Capacity for operations of the WTP Facilities is 36 metric tons per day. This is based on the design capacity for the LAW Facility, 30 metric tons per day, combined with the 6 metric tons per day of HLW design capacity. In the DFLAW configuration, operations will be based on the 30 metric tons per day design capacity. In the Baseline configuration, 36 metric tons per day will be used.

A total of eighteen (18) miscellaneous units (MUs) will be permitted to manage the dangerous/mixed waste in EMF. These units are comprised of six (6) units involved in waste evaporation, four (4) filtration units, and eight (8) units associated with the vessel vent system.

The 600 gal/hour Process Design Capacity for the units involved in evaporation addressed under X99 in Sections XII and XIII is based on a maximum inflow feed rate of 10 gal/min multiplied by 60 min/hr for a feed rate of 600 gal/hr.

The six (6) units involved in waste evaporation that will be permitted, and corresponding rooms are:

- DEP-HX-00001- Evaporator concentrate/feed vessels LAW effluent cooler (E-0103)
- DEP-EVAP-00001-DEP Evaporator separator vessel (E-0103)
- DEP-COND-00001-DEP Evaporator primary condenser (E-0102)
- DEP-COND-00002-DEP Evaporator inter-condenser (E-0102)
- DEP-COND-00003- DEP Evaporator after-condenser (E-0102)
- DEP-RBLR-00001- DEP Evaporator reboiler (E-0103)

The 9,720 gallons/hr Process Design Capacity for units involved in filtration in Sections XII and XIII is based on the highest designed flowrate capacity of the filters, which is 162 gal/min for the DEP evaporator feed prefilter (DEP-FILT-00003 ) multiplied by 60 min/hr for a flowrate capacity of 9,720 gal/hr.

The four (4) filtration system units that will be permitted, and corresponding rooms are:

- DEP-FILT-00002-DEP Process condensate filter (E-0103)
- DEP-FILT-00003- DEP Evaporator feed prefilter (E-0103)
- DEP-FILT-00004A-DEP Condensate duplex cartridge filter (E-0102)
- DEP-FILT-00004B-DEP Condensate duplex cartridge filter (E0102)
The remaining eight (8) MUs are managed under the WTP air permits listed in Section X. These MUs associated with the Direct Feed LAW Effluent Management Facility Vessel Vent System (DVP), and corresponding rooms are:

- DVP-HEPA-00003A- Process ventilation primary HEPA filters (E-0102A)
- DVP-HEPA-00003B- Process ventilation primary HEPA filters (E-0102A)
- DVP-HEPA-00004A- Process ventilation secondary HEPA filters (E-0102A)
- DVP-HEPA-00004B- Process ventilation secondary HEPA filters (E-0102A)
- DVP-EXHR-00001A- Process ventilation exhausters (E-0102)
- DVP-EXHR-00001B- Process ventilation exhausters (E-0102)
- DVP-HTR-00001A- Process ventilation preheater (E-0102)
- DVP-HTR-00001B- Process ventilation preheater (E-0102)

**Process Codes**

S01 = Storage in containers  
S02 = Tank storage  
S06 = Containment building storage  
T01 = Tank treatment  
T04 = Other treatment (vitrification)  
X99= Other Processes

**EXAMPLE FOR COMPLETING ITEMS XII and XIII** (shown in lines numbered X-1, X-2, and X-3 below): A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification*.

<table>
<thead>
<tr>
<th><strong>Section XII. Process Codes and Design Capacities</strong></th>
<th><strong>Section XIII. Other Process Codes</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Process Codes (enter code)</strong></td>
<td><strong>B. Process Design Capacity</strong></td>
</tr>
<tr>
<td><strong>Line Number</strong></td>
<td><strong>1. Amount</strong></td>
</tr>
<tr>
<td>X 1</td>
<td>S 0 2</td>
</tr>
<tr>
<td>X 2</td>
<td>T 0 3</td>
</tr>
<tr>
<td>X 3</td>
<td>T 0 4</td>
</tr>
<tr>
<td>1</td>
<td>S 0 1</td>
</tr>
<tr>
<td>2</td>
<td>S 0 2</td>
</tr>
<tr>
<td>3</td>
<td>S 0 6</td>
</tr>
<tr>
<td>4</td>
<td>T 0 1</td>
</tr>
<tr>
<td>5</td>
<td>T 0 4</td>
</tr>
<tr>
<td>6</td>
<td>X 9 9</td>
</tr>
<tr>
<td>7</td>
<td>X 9 9</td>
</tr>
</tbody>
</table>
### XIV. Description of Dangerous Wastes

**Example for completing this section:** A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

<table>
<thead>
<tr>
<th>Line Number</th>
<th>A. Dangerous Waste No. (enter code)</th>
<th>B. Estimated Annual Quantity of Waste</th>
<th>C. Unit of Measure (enter code)</th>
<th>D. Processes (1) Process Codes (enter)</th>
<th>(2) Process Description [If a code is not entered in D (1)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>X 1</td>
<td>D 0 0 2</td>
<td>400</td>
<td>P S 0 1 T 0 1</td>
<td>Included with above</td>
<td></td>
</tr>
<tr>
<td>X 2</td>
<td>D 0 0 1</td>
<td>100</td>
<td>P S 0 2 T 0 1</td>
<td>Included with above</td>
<td></td>
</tr>
<tr>
<td>X 3</td>
<td>D 0 0 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>D 0 0 1</td>
<td>16,300</td>
<td>T S 0 2</td>
<td>Included with above</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>D 0 0 2</td>
<td>T S 0 2 T 0 1</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>D 0 0 3</td>
<td>T S 0 2</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>D 0 0 4</td>
<td>T S 0 2 T 0 1</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>D 0 0 5</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>D 0 0 6</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>D 0 0 7</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>D 0 0 8</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>D 0 0 9</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>D 0 1 0</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>D 0 1 1</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>D 0 1 8</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>D 0 1 9</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>D 0 2 2</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>D 0 2 8</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>D 0 2 9</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>D 0 3 0</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>D 0 3 3</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>D 0 3 4</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>D 0 3 5</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>D 0 3 6</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>D 0 3 8</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>D 0 3 9</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>D 0 4 0</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>D 0 4 1</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>W T 0 1</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>27</td>
<td>W</td>
<td>T</td>
<td>0</td>
<td>2</td>
<td>T</td>
</tr>
<tr>
<td>28</td>
<td>W</td>
<td>P</td>
<td>0</td>
<td>1</td>
<td>T</td>
</tr>
<tr>
<td>29</td>
<td>W</td>
<td>P</td>
<td>0</td>
<td>2</td>
<td>T</td>
</tr>
<tr>
<td>30</td>
<td>F</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>T</td>
</tr>
<tr>
<td>31</td>
<td>F</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>T</td>
</tr>
<tr>
<td>32</td>
<td>F</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>T</td>
</tr>
<tr>
<td>33</td>
<td>D</td>
<td>0</td>
<td>4</td>
<td>3</td>
<td>T</td>
</tr>
<tr>
<td>34</td>
<td>W</td>
<td>T</td>
<td>0</td>
<td>1</td>
<td>T</td>
</tr>
<tr>
<td>35</td>
<td>W</td>
<td>T</td>
<td>0</td>
<td>2</td>
<td>T</td>
</tr>
<tr>
<td>36</td>
<td>W</td>
<td>P</td>
<td>0</td>
<td>1</td>
<td>T</td>
</tr>
<tr>
<td>37</td>
<td>W</td>
<td>P</td>
<td>0</td>
<td>2</td>
<td>T</td>
</tr>
<tr>
<td>38</td>
<td>F</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>T</td>
</tr>
<tr>
<td>39</td>
<td>F</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>T</td>
</tr>
<tr>
<td>40</td>
<td>F</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>T</td>
</tr>
<tr>
<td>41</td>
<td>F</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>T</td>
</tr>
<tr>
<td>42</td>
<td>F</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>T</td>
</tr>
<tr>
<td>43</td>
<td>F</td>
<td>0</td>
<td>3</td>
<td>9*</td>
<td>T</td>
</tr>
<tr>
<td>44</td>
<td>D</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>T</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>D</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>T</td>
</tr>
<tr>
<td>46</td>
<td>D</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>T</td>
</tr>
<tr>
<td>47</td>
<td>D</td>
<td>0</td>
<td>0</td>
<td>6</td>
<td>T</td>
</tr>
<tr>
<td>48</td>
<td>D</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>T</td>
</tr>
<tr>
<td>49</td>
<td>D</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>T</td>
</tr>
<tr>
<td>50</td>
<td>D</td>
<td>0</td>
<td>0</td>
<td>9</td>
<td>T</td>
</tr>
<tr>
<td>51</td>
<td>D</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>T</td>
</tr>
<tr>
<td>52</td>
<td>D</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>T</td>
</tr>
<tr>
<td>53</td>
<td>D</td>
<td>0</td>
<td>1</td>
<td>8</td>
<td>T</td>
</tr>
<tr>
<td>54</td>
<td>D</td>
<td>0</td>
<td>1</td>
<td>9</td>
<td>T</td>
</tr>
<tr>
<td>55</td>
<td>D</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>T</td>
</tr>
<tr>
<td>56</td>
<td>D</td>
<td>0</td>
<td>2</td>
<td>8</td>
<td>T</td>
</tr>
<tr>
<td>57</td>
<td>D</td>
<td>0</td>
<td>2</td>
<td>9</td>
<td>T</td>
</tr>
<tr>
<td>58</td>
<td>D</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>T</td>
</tr>
<tr>
<td>59</td>
<td>D</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>T</td>
</tr>
<tr>
<td>60</td>
<td>D</td>
<td>0</td>
<td>3</td>
<td>4</td>
<td>T</td>
</tr>
<tr>
<td>61</td>
<td>D</td>
<td>0</td>
<td>3</td>
<td>5</td>
<td>T</td>
</tr>
<tr>
<td>62</td>
<td>D</td>
<td>0</td>
<td>3</td>
<td>6</td>
<td>T</td>
</tr>
<tr>
<td>63</td>
<td>D</td>
<td>0</td>
<td>3</td>
<td>8</td>
<td>T</td>
</tr>
<tr>
<td>Page</td>
<td>Column 1</td>
<td>Column 2</td>
<td>Notes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>---------</td>
<td>---------</td>
<td>-------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>D 0 3 9</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>D 0 4 0</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>D 0 4 1</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>67</td>
<td>D 0 4 3</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>W T 0 1</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>W T 0 2</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>W P 0 1</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>W P 0 2</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>F 0 0 1</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>F 0 0 2</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>74</td>
<td>F 0 0 3</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>F 0 0 4</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>F 0 0 5</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>77</td>
<td>F 0 3 9*</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>78</td>
<td>D 0 0 2</td>
<td>5,100</td>
<td>T S 0 1 T 9 4 S 0 6 Treatment &amp; storage of secondary waste other than ILAW containers and IHLW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>79</td>
<td>D 0 0 4</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>D 0 0 5</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>81</td>
<td>D 0 0 6</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>82</td>
<td>D 0 0 7</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>83</td>
<td>D 0 0 8</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>D 0 0 9</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>85</td>
<td>D 0 1 0</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>86</td>
<td>D 0 1 1</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>87</td>
<td>D 0 1 8</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>88</td>
<td>D 0 1 9</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>89</td>
<td>D 0 2 2</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>D 0 2 8</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>91</td>
<td>D 0 2 9</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>92</td>
<td>D 0 3 0</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>93</td>
<td>D 0 3 3</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>D 0 3 4</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95</td>
<td>D 0 3 5</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>96</td>
<td>D 0 3 6</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>97</td>
<td>D 0 3 8</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>98</td>
<td>D 0 3 9</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99</td>
<td>D 0 4 0</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>D 0 4 1</td>
<td>T</td>
<td>Included with above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Notes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
<td>-------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D043T</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WT01T</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WT02T</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WP01T</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WP02T</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F001T</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F002T</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F003T</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F004T</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F005T</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F039T</td>
<td>PODC used and only applicable during the Environmental Performance Demonstration Test.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U037G</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U165G</td>
<td>Included with above</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Footnote From Section XIV

*F039 is a multisource leachate included as a waste derived from non-specific source wastes F001 through F005

*Waste codes for ignitability (D001) and reactivity (D003) apply only to the waste while it is in the pretreatment facility. LAW feed receipt FRP vessels and the HLW feed receipt vessel. Downstream of these vessels, the D001 and D003 waste codes are administratively removed from the project’s waste streams.

** Waste codes will only apply during the LAW Environmental Performance Demonstration Test Periods in which PODCs are spiked into the melter(s). After performing a purge of the LAW Vitrification System; in accordance with, DWP condition III.10.H.3.a.vi, these waste code(s) will no longer apply to any wastes generated in the LAW Vitrification System. No process media or equipment will be changed out (e.g. carbon media, HEPA filters, pumps, etc.) during the purge process.
XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (refer to Instructions for more detail).
XVII. Photographs
All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to Instructions for more detail).

XVIII. Certifications
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator
Name and Official Title (type or print)
Brian Vance, Manager
U.S. Department of Energy
Office of River Protection

Signature

Date Signed
<table>
<thead>
<tr>
<th><strong>Co-Operator</strong></th>
<th><strong>Signature</strong></th>
<th><strong>Date Signed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name and Official Title (type or print)</td>
<td>Valerie McCain</td>
<td></td>
</tr>
<tr>
<td>Project Director</td>
<td>Bechtel National, Inc.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Co-Operator</strong> – Address and Telephone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2435 Stevens Center Place</td>
</tr>
<tr>
<td>Richland, WA 99352</td>
</tr>
<tr>
<td>(509) 371-2335</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Facility-Property Owner</strong></th>
<th><strong>Signature</strong></th>
<th><strong>Date Signed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name and Official Title (type or print)</td>
<td>Brian Vance, Manager</td>
<td></td>
</tr>
<tr>
<td>U.S. Department of Energy</td>
<td>Office of River Protection</td>
<td></td>
</tr>
</tbody>
</table>

| **Comments** |