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**PART V, CLOSURE UNIT GROUP 12 CONDITIONS**  
**216- A-36B CRIB**

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**PART V, CLOSURE GROUP 12 CONDITIONS,**

**216- A-36B CRIB**

**UNIT DESCRIPTION**

The 216-A-36B Crib is a man-made, subsurface liquid effluent disposal facility, regulated as an unlined (non-compliant) surface impoundment. The 216-A-36B Crib is located approximately 366 meters (1,200 feet) south of the 202-A Building, also referred to as the Plutonium-Uranium Extraction (PUREX) Facility. The 216-A-36B Crib was used to manage process chemical waste from PUREX. The 216-A-36B Crib operated from 1966 until October 1972, and again from November 1982 to September 6, 1987.

The nature and quantity of mixed waste managed by the 216-A-36B Crib is known and identified on the Part A Form. Because the 216-A-36B Crib has received a known final volume of dangerous waste, and the unit will not receive any additional non-dangerous waste, this unit will close according to the requirements and schedules in the approved closure plan in this chapter of the Permit. The design capacity of the 216-A-36B Crib was 440,000 liters per day (116,000 gallons per day).

The closure of the 216-A-36B Crib will be coordinated with final CERCLA remedial actions in the 200 Area. Specifically, soil cleanup will be coordinated with the 200-EA-1 Operating Unit, and groundwater cleanup will be coordinated with the 200-PO-1 Groundwater Operable Unit in the manner outlined in the *Hanford Federal Facility Agreement and Consent Order* (HFFACO) Action Plan, Section 5.5, and in accordance with schedules in HFFACO Milestones M-037-02 and M-037-10.

**LIST OF ADDENDA**

Addendum A	Part A Form
Addendum B	Sampling and Analysis Plan – Reserved
Addendum C	Process Information – Reserved
Addendum D	Groundwater Monitoring Plan
Addendum E	Security Requirements - Reserved
Addendum F	Preparedness and Prevention Plan – Reserved
Addendum G	Personnel Training
Addendum H	Closure Plan and Post-Closure Plan – Reserved
Addendum I	Inspection Schedule
Addendum J	Contingency Plan – Reserved

**DEFINITIONS**

Reserved

**ACRONYMS**

Reserved

**V.12.A COMPLIANCE WITH PERMIT CONDITIONS**

The Permittees will comply with all permit conditions in this Chapter and its addenda with respect to the applicable requirements in Part I and Part II of the Hanford Facility Dangerous Waste Permit.

**V.12.B CLOSURE**

**V.12.B.1** The Permittees will submit a closure plan and post-closure plan in accordance with the schedule specified in HFFACO Milestone M-037-02, which are incorporated by reference herein under the terms of Permit Condition I.A.4 and in compliance with

- 1 Permit Condition I.C.3. As part of the closure plan, the Permittees will address  
2 contingent closure and contingent post-closure requirements. The contingent closure and  
3 post-closure section will include time frames of when detailed plans of a landfill cover  
4 would be submitted for Ecology review and approval and when the construction of the  
5 landfill cover would begin once the Permittees have determined the unit cannot meet  
6 clean closure standards.
- 7 **V.12.B.1.a** The Permittees will submit site specific biological and cultural resources reviews 90 days  
8 before the beginning of the closure process. [[WAC 173-303-815](#)(2)(b)(i)]
- 9 **V.12.B.2** The closure plan and post-closure plan required by V.12.B.1 will include a schedule for  
10 closure that will achieve the HFFACO milestone date in Milestone M-037-10, as  
11 incorporated above (Attachment 1). This unit will also close under a compliance  
12 schedule per [WAC 173-303-815](#)(3)(b).
- 13 **V.12.B.3** The closure plan submitted pursuant to V.12.B.1 will specify dangerous constituents and  
14 corresponding closure performance standards to meet the requirements of [WAC 173-303-](#)  
15 [610](#)(2)(b)(i) for soils affected by the operations associated with this unit.
- 16 **V.12.B.4** Closure performance standards for soils will satisfy the most stringent (lowest) cleanup  
17 level or standard of [WAC 173-340](#), Model Toxics Control Act (MTCA) Cleanup  
18 Regulation. The numeric cleanup levels for soils will be calculated according to the  
19 MTCA cleanup methods described in [WAC 173-340-700](#) through [WAC 173-340-760](#).  
20 Selection of an appropriate MCTA cleanup method will be dependent on the specific  
21 cleanup actions required for this site.
- 22 **V.12.B.5** Once the closure plan is incorporated into Addendum H through the permit modification  
23 process the Permittees will close the 216-A-36B Crib according to the requirements in  
24 Addendum H. [[WAC 173-303-610](#)(3)(a)]
- 25 **V.12.B.6** The closure plan and sampling and analysis plan will meet the applicable closure and  
26 post-closure requirements of [WAC 173-303-610](#) and [WAC 173-303-650](#)(6) pursuant to  
27 the requirements of this Chapter.
- 28 **V.12.B.7** In conjunction with the revised closure plan, the Permittees will submit a revised  
29 sampling and analysis plan in accordance with Permit Conditions II.D and the schedule  
30 specified in HFFACO Milestone M-037-02, which are incorporated by reference herein  
31 under the terms of Permit Condition I.A.4.
- 32 **V.12.B.8** The revised sampling and analysis plan (noted in V.12.B.7) will include, but not be  
33 limited to:
- 34 **V.12.B.8.a** Process for identifying contaminants
- 35 **V.12.B.8.b** Quality assurance/quality control project plan
- 36 **V.12.B.8.c** Methods for representative soil sampling
- 37 **V.12.B.8.d** Analysis parameters
- 38 **V.12.B.8.e** Analytical documentation
- 39 **V.12.B.9** The Permittees will conduct all sampling and analysis of environmental media pursuant  
40 to the requirements of the sampling and analysis plan.
- 41 **V.12.C** **POST-CLOSURE CARE AND MAINTENANCE**
- 42 Upon certification of unit closure the Permittees will comply with the post-closure plan in  
43 Addendum H.

1 **V.12.D GENERAL WASTE MANAGEMENT REQUIREMENTS**

2 **V.12.D.1** All waste analysis required by this chapter will be conducted according to the approved  
3 sampling and analysis plan.

4 **V.12.D.2** Changes to the analytical methods used in this permit will require prior Ecology approval  
5 according to [WAC 173-303-830](#), Permit Changes.

6 **V.12.E GROUNDWATER MONITORING REQUIREMENTS FOR REGULATED UNITS**

7 **V.12.E.1** The Permittees will implement the interim status groundwater monitoring plan until a  
8 final status groundwater monitoring plan, as required by Permit Condition V.12.E.2, is  
9 incorporated into the Permit. The interim status groundwater monitoring plan for the  
10 216-A-36B Crib is contained in Addendum D to this Chapter. (*DOE/RL-2010-93,*  
11 *Revision 1, Interim Status Groundwater Monitoring Plan for the 216-A-36B PUREX*  
12 *Plant Crib*)

13 **V.12.E.2** The Permittees will submit a final status groundwater monitoring plan in conjunction  
14 with a final closure plan as specified in Permit Condition V.12.B.1. The Permittees may  
15 choose to submit a final groundwater monitoring plan that complies with the alternative  
16 groundwater monitoring protection requirement provision in [WAC 173-303-645](#)(1)(e), as  
17 specified in Permit Condition II.F.2.

18 **V.12.F RECORDKEEPING AND REPORTING**

19 The Permittees will place documentation of all work conducted pursuant to this Chapter  
20 including results of all monitoring, testing, or analytical work and associated quality  
21 assurance and quality control data in the Hanford Facility Operating Record, as required  
22 by Permit Condition II.I.2. [[WAC 173-303-380](#)]

23 **V.12.G SECURITY**

24 The Permittees will post signs at access points to the 216-A-36B Crib stating the  
25 following (or an equivalent legend): Danger – Unauthorized Personnel Keep Out. These  
26 signs will be written in English, legible from a distance of 7.6 meters (~25 feet), and  
27 visible from all angles of approach. [[WAC 173-303-310](#)(2)(a)]

28 **V.12.H PREPAREDNESS AND PREVENTION**

29 Reserved

30 **V.12.I CONTINGENCY PLAN**

31 Reserved

32 **V.12.J INSPECTIONS**

33 **V.12.J.1** The Permittees will follow the inspection schedule in Addendum I and Permit Condition  
34 II.X until closure of the unit.

35 **V.12.J.2** In the event of any potential threats to human health or the environment, the Permittees  
36 will increase inspections to quarterly until the threats are removed.

37 **V.12.K TRAINING PLAN**

38 The Permittees will comply with the training requirements as described in Permit  
39 Condition II.C (Personnel Training), Permit Attachment 5 (Hanford Facility Personnel  
40 Training Plan), and Addendum G (Personnel Training).

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