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**PART V, CLOSURE UNIT GROUP 14 CONDITIONS
216-S-10 POND AND DITCH**

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**PART V, CLOSURE GROUP 14 CONDITIONS
216-S-10 POND AND DITCH**

UNIT DESCRIPTION

The 216-S-10 Pond and Ditch (216-S-10 P&D) are non-operational, open, unlined and man-made earthen percolation units that are regulated as unlined (non-compliant) dangerous waste surface impoundments. The 216-S-10 P&D were used to manage chemical sewer discharges from the separation/concentration processes at the Reduction Oxidation (REDOX) Facility. The 216-S-10 P&D have not received liquid waste since October 1991. The nature and quantity of mixed waste managed by the 216-S-10 P&D is known and identified on the Part A Form.

Because the 216-S-10 P&D 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 closure of the 216-S-10 P&D will be coordinated with final CERCLA remedial actions in the 200 Area. Specifically, groundwater cleanup will be coordinated with the 200-UP-1 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-037-03 and M-037-11.

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.14.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.14.B CLOSURE

V.14.B.1 The Permittees will submit a closure plan and post-closure plan in accordance with the schedule specified in HFFACO Milestone M-037-03, which are incorporated by reference herein under the terms of Permit Condition I.A.4 and in compliance with Permit Condition I.C.3. (Attachment 1) As part of the closure plan, the Permittees will address contingent closure and contingent post-closure requirements. The contingent closure and post-closure section will include time frames of when detailed plans of a

- 1 landfill cover would be submitted for Ecology review and approval and when the
2 construction of the landfill cover would begin once the Permittees have determined the
3 unit cannot meet clean closure standards.
- 4 **V.14.B.1.a** The Permittees submit site specific biological and cultural resources reviews 90 days
5 before the beginning of the closure process. [[WAC 173-303-815\(2\)\(b\)\(i\)](#)]
- 6 **V.14.B.2** The closure plan required by V.14.B.1 will include a schedule for closure that will
7 achieve the HFFACO milestone date in Milestone M-037-11, as incorporated above
8 (Attachment 1). This unit will also close under a compliance schedule per [WAC 173-](#)
9 [303-815\(3\)\(b\)](#).
- 10 **V.14.B.3** The closure plan submitted pursuant to V.14.B.1 will specify dangerous constituents and
11 corresponding closure performance standards to meet the requirements of [WAC 173-303-](#)
12 [610\(2\)\(b\)\(i\)](#) for soils affected by the operations associated with this unit.
- 13 **V.14.B.4** Closure performance standards for soils will satisfy the most stringent (lowest) cleanup
14 level or standard of [WAC 173-340](#), Model Toxics Control Act (MTCA) Cleanup
15 Regulation. The numeric cleanup levels for soils will be calculated according to the
16 MTCA cleanup methods described in [WAC 173-340-700](#) through [WAC 173-340-760](#).
17 Selection of an appropriate MCTA cleanup method will be dependent on the specific
18 cleanup actions required for this site.
- 19 **V.14.B.5** Once the closure plan is incorporated into Addendum H through the permit modification
20 process the Permittees will close the 216-S-10 P&D according to the requirements in
21 Addendum H. [[WAC 173-303-610\(3\)\(a\)](#)]
- 22 **V.14.B.6** The closure plan and sampling and analysis plan will meet the applicable closure and
23 post-closure requirements of [WAC 173-303-610](#) and [WAC 173-303-650\(6\)](#) pursuant to
24 the requirements of this Chapter.
- 25 **V.14.B.7** In conjunction with the revised closure plan, the Permittees will submit a revised
26 sampling and analysis plan in accordance with Permit Conditions II.D and the schedule
27 specified in HFFACO Milestone M-037-03, which are incorporated by reference herein
28 under the terms of Permit Condition I.A.4.
- 29 **V.14.B.8** The revised sampling and analysis plan (noted in V.14.B.7) will include, but not be
30 limited to:
- 31 **V.14.B.8.a** Process for identifying contaminants
- 32 **V.14.B.8.b** Quality assurance/quality control project plan
- 33 **V.14.B.8.c** Methods for representative soil sampling
- 34 **V.14.B.8.d** Analysis parameters
- 35 **V.14.B.8.e** Analytical documentation
- 36 **V.14.B.1** The Permittees will conduct all sampling and analysis of environmental media pursuant
37 to the requirements of the sampling and analysis plan.
- 38 **V.14.C** **POST-CLOSURE CARE AND MAINTENANCE**
- 39 Upon certification of unit closure the Permittees will comply with the post-closure plan in
40 Addendum H.
- 41
- 42

1 **V.14.D GENERAL WASTE MANAGEMENT REQUIREMENTS**

2 **V.14.D.1** All waste analysis required by this chapter will be conducted according to the approved
3 sampling and analysis plan.

4 **V.14.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.14.E GROUNDWATER MONITORING REQUIREMENTS FOR REGULATED UNITS**

7 **V.14.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.14.E.2, is
9 incorporated into the Permit. The interim status groundwater monitoring plan for the
10 216-S-10 Pond & Ditch is contained in Addendum D to this Chapter. (*DOE/RL-2008-61,*
11 *Revision 0, Interim Status Groundwater Monitoring Plan for the 216-S-10 Pond and*
12 *Ditch, March 26, 2010)*

13 **V.14.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.14.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.14.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.14.G SECURITY**

24 The Permittees will post signs at access points to the 216-S-10 P&D stating the following
25 (or an equivalent legend): Danger – Unauthorized Personnel Keep Out. These signs will
26 be written in English, legible from a distance of 7.6 meters (25 feet), and visible from all
27 angles of approach. [[WAC 173-303-310](#)(2)(a)]

28 **V.14.H PREPAREDNESS AND PREVENTION**

29 Reserved

30 **V.14.I CONTINGENCY PLAN**

31 Reserved

32 **V.14.J INSPECTIONS**

33 **V.14.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.14.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.14.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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