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PART VI, POST CLOSURE GROUP 2 CONDITIONS
183-H SOLAR EVAPORATION BASINS

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1 **PART VI, POST CLOSURE GROUP 2 CONDITIONS**

2 **183-H SOLAR EVAPORATION BASINS**

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4 **UNIT DESCRIPTION**

5 The 183-H Solar Evaporation Basins were four concrete basins used for waste treatment and disposal
6 from 1973 to 1985. The waste discharged to the basins originated in the 300 Area Fuel Fabrication
7 Facility and included solutions of neutralized chromic, hydrofluoric, nitric, and sulfuric acids. In
8 addition, nonradioactive dangerous waste was discharged to the basins on a non-routine basis. These
9 deactivated water treatment basins received a maximum of approximately 400,000 gallons
10 (1,514,160 liters) of waste a year. The basins had a tank treatment design capacity of 700 gallons
11 (2,650 liters) of waste a day treated by evaporation and a tank storage design capacity of
12 2,167,000 gallons (8,202,960 liters), a collective value representing all four basins. The basins have not
13 received waste since November 1985.

14 Closure activities have been completed with the exception of placing a final cover over the basins.
15 Postclosure groundwater monitoring is being conducted as a part of the interim action for the 100-HR-3
16 Groundwater Operable Unit.

17 The 183-H Solar Evaporation Basins received mixed waste that consisted primarily of neutralized acid
18 process waste that was designated Extremely Hazardous Waste (EHW) because of toxicity (WT01). The
19 basins also received various nonradioactive waste (listed discarded chemical products), resulting in
20 designation for cyanides (P030), vanadium oxide (P120), and formic acid (U123). Approximately
21 3,600,000 pounds (1,632,000 kilograms) of waste a year was treated. Additionally, Basin No. 2 liquid
22 was designated EP Toxic because of the presence of chromium (D007).

23 **LIST OF ADDENDUMS**

24	Addendum A	Part A Form
25	Addendum B	Waste Analysis Plan- Reserved
26	Addendum C	Process Information-Reserved
27	Addendum D	Groundwater Monitoring
28	Addendum E	Security
29	Addendum F	Preparedness and Prevention-Reserved
30	Addendum G	Training Plan-Reserved
31	Addendum H	Post Closure Plan
32	Addendum I	Inspections - Reserved
33	Addendum J	Contingency Plan-Reserved
34	Addendum K	Corrective Action Plan

35 **DEFINITIONS**

36 Reserved

37 **ACRONYMS**

38 Reserved

- 1 **VI.2.A COMPLIANCE WITH PERMIT CONDITIONS**
- 2 **VI.2.A.1** The Permittees will comply with all conditions in this Chapter, its Addendums, and
3 requirements in Part I and II. In the event that a Unit-Specific Permit Condition conflicts
4 with Permit Conditions in Parts I or II of this Hanford Facility Dangerous Waste Permit,
5 the Unit-Specific Conditions will prevail.
- 6 **VI.2.B POSTCLOSURE PLAN**
- 7 **VI.2.B.1** Permittees will comply with the requirements of the Postclosure Plan in Addendum H.
- 8 **VI.2.B.2** Permittees will submit a detailed plan for a final cover that complies with the
9 requirements of [WAC 173-303-650\(6\)\(a\)\(ii\)](#) within 60 days of the issuance of this
10 permit.
- 11 **VI.2.C GROUNDWATER MONITORING REQUIREMENTS**
- 12 **VI.2.C.1** The Permittees shall conduct postclosure groundwater monitoring of the 183-H Solar
13 Evaporation Basins in accordance with the groundwater monitoring plan in Addendum
14 D.
- 15 **VI.2.C.2** The Permittees will submit a revised ground water monitoring plan updating the
16 monitoring system of wells and complies with the general ground water monitoring
17 requirements of [WAC 173-303-645\(8\)](#) and (10) 90 days after the effective date of this
18 permit.
- 19 **VI.2.D GENERAL WASTE MANAGEMENT STANDARDS**
- 20 **VI.2.D.1** All waste analysis required by this chapter will be conducted according to the approved
21 sampling and analysis plan in Addendum D.
- 22 **VI.2.E RECORDKEEPING AND REPORTING**
- 23 **VI.2.E.1** The Permittees will place documentation of all work conducted pursuant to this Chapter
24 including results of all monitoring, testing, or analytical work and associated quality
25 assurance and quality control data in the Hanford Facility Operating Record, as required
26 by Permit Condition II.I.2. [[WAC 173-303-380](#)]
- 27 **VI.2.F SECURITY**
- 28 The Permittees will comply with Addendum E and will post signs at public access points
29 to the 183-H Solar Evaporation Basins protected area stating: *No Trespassing, Security*
30 *Badges Required Beyond This Point, Authorized Vehicles Only, Public Access*
31 *Prohibited*, or an equivalent legend. In addition, warning signs stating
32 *Danger--Unauthorized Personnel Keep Out*, or an equivalent legend will be posted at all
33 entrances to the unit. These signs are, or will be, written in English, legible from a
34 distance of 7.6 meters, and visible from all angles of approach.
- 35 **VI.2.G INSPECTIONS**
- 36 **VI.2.G.1** The Permittees will perform inspections according to Addendum I.
- 37 **VI.2.H TRAINING PLAN**
- 38 **VI.2.H.1** The Permittees will comply with the training requirements as described in Permit
39 Condition II.C (Personnel Training), and Permit Attachment 5.
- 40

- 1 **VI.2.I CORRECTIVE ACTION**
- 2 **VI.2.I.1** The Permittees will conduct Corrective Action in accordance with the Corrective Action
- 3 Plan in Addendum K.
- 4 **VI.2.I.2** The Permittees will submit a revised Corrective Action Plan within 90 days from the
- 5 effective date of this permit.
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