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

UNIT DESCRIPTION

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

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

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

LIST OF ADDENDUMS

Addendum A Part A Form
Addendum B Waste Analysis Plan- Reserved
Addendum C Process Information-Reserved
Addendum D Groundwater Monitoring
Addendum E Security
Addendum F Preparedness and Prevention-Reserved
Addendum G Training Plan-Reserved
Addendum H Post Closure Plan
Addendum I Inspections - Reserved
Addendum J Contingency Plan-Reserved
Addendum K Corrective Action Plan

DEFINITIONS

Reserved

ACRONYMS

Reserved
VI.2.A COMPLIANCE WITH PERMIT CONDITIONS

VI.2.A.1 The Permittees will comply with all conditions in this Chapter, its Addendums, and requirements in Part I and II. In the event that a Unit-Specific Permit Condition conflicts with Permit Conditions in Parts I or II of this Hanford Facility Dangerous Waste Permit, the Unit-Specific Conditions will prevail.

VI.2.B POSTCLOSURE PLAN

VI.2.B.1 Permittees will comply with the requirements of the Postclosure Plan in Addendum H.

VI.2.B.2 Permittees will submit a detailed plan for a final cover that complies with the requirements of WAC 173-303-650(6)(a)(ii) within 60 days of the issuance of this permit.

VI.2.C GROUNDWATER MONITORING REQUIREMENTS

VI.2.C.1 The Permittees shall conduct postclosure groundwater monitoring of the 183-H Solar Evaporation Basins in accordance with the groundwater monitoring plan in Addendum D.

VI.2.C.2 The Permittees will submit a revised groundwater monitoring plan updating the monitoring system of wells and complies with the general groundwater monitoring requirements of WAC 173-303-645(8) and (10) 90 days after the effective date of this permit.

VI.2.D GENERAL WASTE MANAGEMENT STANDARDS

VI.2.D.1 All waste analysis required by this chapter will be conducted according to the approved sampling and analysis plan in Addendum D.

VI.2.E RECORDKEEPING AND REPORTING

VI.2.E.1 The Permittees will place documentation of all work conducted pursuant to this Chapter including results of all monitoring, testing, or analytical work and associated quality assurance and quality control data in the Hanford Facility Operating Record, as required by Permit Condition II.I.2. [WAC 173-303-380]

VI.2.F SECURITY

The Permittees will comply with Addendum E and will post signs at public access points to the 183-H Solar Evaporation Basins protected area stating: No Trespassing, Security Badges Required Beyond This Point, Authorized Vehicles Only, Public Access Prohibited, or an equivalent legend. In addition, warning signs stating Danger—Unauthorized Personnel Keep Out, or an equivalent legend will be posted at all entrances to the unit. These signs are, or will be, written in English, legible from a distance of 7.6 meters, and visible from all angles of approach.

VI.2.G INSPECTIONS

VI.2.G.1 The Permittees will perform inspections according to Addendum I.

VI.2.H TRAINING PLAN

VI.2.H.1 The Permittees will comply with the training requirements as described in Permit Condition II.C (Personnel Training), and Permit Attachment 5.
VI.2.I  CORRECTIVE ACTION

VI.2.I.1  The Permittees will conduct Corrective Action in accordance with the Corrective Action Plan in Addendum K.

VI.2.I.2  The Permittees will submit a revised Corrective Action Plan within 90 days from the effective date of this permit.
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