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PART V, CLOSURE UNIT GROUP 16 CONDITIONS
1706-KE WTS

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PART V, CLOSURE GROUP 16 CONDITIONS

1706-KE WTS

UNIT DESCRIPTION

The 1706-KE Waste Treatment System (WTS) was designed and installed to treat mixed waste generated in the laboratories of the 1706-KE building. The 1706-KE WTS consisted of a 2082 liter (550-gallon) waste accumulation tank, a 0.14-cubic meter mixed-bed resin ion exchange column, a 114-liter (30-gallon) evaporator unit, and a 363-liter (96-gallon) condensate collection tank. The majority of this waste was expected to be acidic or caustic solutions (D002, characteristic, corrosive, dangerous waste).

Operation of this unit was ceased shortly after initial startup due to the unanticipated anomalies experienced in the operating system. Approximately 6804 kilograms (15,000 pounds) of waste could have been treated in the 1706-KE WTS per year, but the unit treated only a fraction of this amount in the short time it was operational.

The 1706-KE WTS will be closed in the manner outlined in the *Hanford Federal Facility Agreement and Consent Order* (HFFACO) Action Plan, Section 5.5 and in accordance with the schedule in HFFACO Milestone M-016-52.

LIST OF ADDENDUMS

Addendum A	Part A Form
Addendum B	Waste Analysis/Sampling and Analysis Plan- Reserved
Addendum C	Process Information-Reserved
Addendum D	Groundwater Monitoring-Reserved
Addendum E	Security Requirements Specific to the 1706-KE-Reserved
Addendum F	Preparedness and Prevention-Reserved
Addendum G	Training Plan-Reserved
Addendum H	Closure Plan
Addendum I	Inspections - Reserved
Addendum J	Contingency Plan-Reserved

DEFINITIONS

ACRONYMS

Reserved

V.16.A COMPLIANCE WITH CLOSURE GROUP #16

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.16.B CLOSURE

V.16.B.1 The Permittees shall conduct closure activities in accordance with the Closure Plan in Addendum H and according to EPA, 2006, Action Memorandum for the Non-Time-Critical Removal Action for the 105-KE and 105-KW Reactor Facilities and Ancillary Facilities, and DOE/RL-2005-26, Revision 1 (Removal Action Work Plan for 105-KE/105-KW Reactor Facilities and Ancillary Facilities) and will include a schedule for closure that will achieve HFFACO milestone date in Milestone 016-52, as incorporated by reference herein under the terms of Permit Condition I.A.4 and in compliance with Permit Condition I.C.3.

1 **V.16.B.1.a** The Permittees documentation supporting the independent qualified registered
2 professional engineer's certification of closure shall be submitted to Ecology with the
3 closure certification required by [WAC 173-303-610](#)(6).

4 **V.16.B.1.b Closure Performance Standards**

5 Closure of the 1706-KE Waste Treatment System will be accomplished in accordance
6 with [WAC 173-303-610](#)(2)(b)(ii). The clean closure performance standard is the
7 physical removal and disposal of the 1706-KE Waste Treatment System tank system
8 components, including ancillary equipment and structural components (e.g., concrete). To
9 clean close, all components will be removed, immobilized, and disposed of at an
10 approved disposal facility in accordance with [WAC 173-303-140](#).

11 **V.16.C GENERAL WASTE MANAGEMENT STANDARDS**

12 **V.16.C.1** Reserved

13 **V.16.D RECORDKEEPING AND REPORTING**

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

18 **V.16.E SECURITY**

19 Reserved

20 **V.16.F PREPAREDNESS AND PREVENTION**

21 Reserved

22 **V.16.G INSPECTIONS**

23 Reserved

24 **V.16.H TRAINING PLAN**

25 Reserved

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