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PART III OPERATING UNIT GROUP 14 PERMIT CONDITIONS
WASTE ENCAPSULATION AND STORAGE FACILITY (WESF)

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PART III OPERATING UNIT GROUP 14 PERMIT CONDITIONS
WASTE ENCAPSULATION AND STORAGE FACILITY

UNIT DESCRIPTION

The Waste Encapsulation and Storage Facility (WESF) is a dangerous waste miscellaneous storage unit located in the 200 East Areas. This unit provides underwater pool storage of capsules (stainless steel tube containers) containing mixed waste. WESF manages two mixed waste streams, which consist of cesium chloride and strontium fluoride salts that had been separated from Hanford's tank waste during chemical processing of defense fuel. These salts are stored within the capsules. The storage of the cesium and strontium capsules will remain at WESF until transfer to an approved treatment facility or stored in a national repository.

WESF pool cells and hot cell areas have been designed and built to isolate and maintain confinement of the mixed waste during normal storage conditions and in the event of a natural or man-made accident over the design life of WESF.

LIST OF ADDENDA SPECIFIC TO OPERATING UNIT GROUP 14

Addendum A	Part A Form, dated October 1, 2008
Addendum B	Waste Analysis Plan - Reserved
Addendum C	Process Information
Addendum D	Groundwater Monitoring - Reserved
Addendum E	Security
Addendum F	Preparedness and Prevention
Addendum G	Personnel Training
Addendum H	Closure Plan
Addendum I	Inspection Plan
Addendum J	Contingency Plan

DEFINITIONS

Reserved

ACRONYMS

LDR Land Disposal Restriction

III.14.A COMPLIANCE WITH UNIT-SPECIFIC PERMIT CONDITIONS

III.14.A.1 The Permittees will comply with all conditions in this Chapter and its Permit Addenda with respect to dangerous waste management and dangerous waste management units in Operating Unit Group 14, WESF in addition to requirements in Permit Part I and II (General and Standard Permit Conditions).

III.14.B GENERAL WASTE MANAGEMENT

III.14.B.1 The Permittees are authorized to store in Pool Cells 1 through 8 and 12, Hot Cells F & G, and the transfer chute between Pool Cell 12 and Hot Cell G mixed wastes identified in Addendum C, Section C.1.1, being managed as of the effective date of this Permit. Storage will be according to the requirements of this Chapter.

III.14.B.2 The Permittees will maintain the physical structure of WESF dangerous waste management units as documented in Addendum C, Section C.1. [[WAC 173-303-680\(2\)](#)]

III.14.B.3 The Permittees will include within the scope of Permit Condition I.E.4, systems directly associated with WESF dangerous waste management units as documented in

1 Addendum C, Section C.1. Where Addendum C does not directly specify maintenance
2 and operating requirements, the Permittees will maintain and operate such systems as
3 necessary for proper operation of the WESF dangerous waste management units,
4 compliance with applicable conditions of this permit, and protection of human health and
5 the environment. These systems include systems for maintaining and monitoring pool
6 cell water, movement of capsules such as the transfer chute trolley, and hot cell
7 equipment such as manipulators and viewing windows. [[WAC 173-303-680\(2\)](#)]

8 **III.14.B.4** The Permittees will comply with any schedule of compliance and any applicable
9 associated work requirements included in the LDR report required by and enforceable
10 under HFFACO Milestone M-26, for the treatment and/or acquisition of treatment
11 capacity for and/or the continued storage of waste in the Closure Group 14 pool cell and
12 hot cell areas. Any such schedules and requirements are by this reference incorporated
13 under the terms of Permit Condition I.A.4, and apply under this Permit as if they were
14 fully set forth herein.

15 **III.14.C WASTE ANALYSIS**

16 **III.14.C.1** If sampling or analysis of wastes associated with the WESF dangerous waste
17 management units is to be conducted, the Permittees will submit to Ecology a Class 2
18 permit modification request no later than ninety (90) days prior to the time that sampling
19 and analysis will be conducted, or such other time as may be agreed to in writing, to
20 incorporate an appropriate sampling and analysis plan and a quality assurance plan, into
21 the permit. [[WAC 173-303-300\(2\)](#)]

22 **III.14.C.2** The Permittees will have an accurate and complete waste profile for each waste stream
23 managed at the WESF as necessary to document designation according to
24 [WAC 173-303-070](#), applicable land disposal restriction treatment standards pursuant to
25 [WAC 173-303-140](#), and any other information necessary to ensure management of the
26 waste streams in accordance with requirements of this Permit. This waste profile will be
27 maintained in the Hanford Facility Operating Record; WESF File required by Permit
28 Condition II.I.2 and must be available upon request. [[WAC 173-303-380\(1\)\(a\)](#)]

29 **III.14.D RECORDKEEPING AND REPORTING**

30 **III.14.D.1** The Permittees will place the following into the Hanford Facility Operating Record,
31 WESF File required by Permit Condition II.I.2: [[WAC 173-303-380](#)]

32 **III.14.D.1.a** The quantity of each mixed waste stream as documented in the waste profile required by
33 Addendum C, Section C.4 managed in the WESF dangerous waste management units.
34 [[WAC 173-303-380\(1\)\(a\)\(b\)](#)]

35 **III.14.D.1.b** Records required by [WAC 173-303-380\(1\)\(o\)](#), incorporated by reference.

36 **III.14.E SECURITY**

37 **III.14.E.1** The Permittees will comply with the Security requirements specific to WESF in
38 Addendum E and condition II.L. [[WAC 173-303-310\(2\)\(c\)](#)]

39 **III.14.F PREPAREDNESS AND PREVENTION**

40 **III.14.F.1** The Permittees will comply with the Preparedness and Prevention requirements specific
41 to WESF in Addendum F. [[WAC 173-303-340](#)]

42 **III.14.G CONTINGENCY PLAN**

43 **III.14.G.1** The Permittees will comply with Addendum J in addition to the requirements of Permit
44 Condition II.A when applicable. [[WAC 173-303-350](#)]

45 **III.14.H INSPECTIONS**

- 1 **III.14.H.1** The Permittees will comply with the Inspection plan specific to WESF in Addendum I.
2 [\[WAC 173-303-320\(2\)\]](#)
- 3 **III.14.I TRAINING PLAN**
- 4 **III.14.I.1** The Permittees will, in a written training plan, include training requirements as specified
5 in Addendum G, Personnel Training, as required by WAC 173-303-330(2) and Permit
6 Condition II.C. [\[WAC 173-303-330\]](#)
- 7 **III.14.J OTHER GENERAL REQUIREMENTS**
- 8 Reserved
- 9 **III.14.K CLOSURE**
- 10 **III.14.K.1** The Permittees will close the WESF dangerous waste management units in accordance
11 with Addendum H, Closure Plan. [\[WAC 173-303-610\(4\)\]](#)
- 12 **III.14.L MISCELLANEOUS UNITS**
- 13 **III.14.L.1** The Permittees will comply with requirements identified in Section C.1.3 of Permit
14 Addendum C, and Section E.1.1 of Permit Addendum E concerning signs at WESF
15 [\[WAC 173-303-680\(2\), WAC 173-303-310\(2\)\(a\) \]](#)
- 16 **III.14.L.2** The Permittees will manage capsules in the WESF dangerous waste management units in
17 a manner that ensures they will not rupture or be caused to leak. [\[WAC 173-303-680\(2\)\]](#)
- 18 **III.14.L.3** The Permittees will re-package or over-pack any capsule which lacks structural integrity,
19 or shows signs of damage or corrosion that may reasonably result in a spill or release of
20 the contents, or from which a spill or release has occurred. When such criteria are met,
21 the Permittees will perform repackaging as soon as practicable consistent with worker
22 safety and protection of human health and the environment. [\[WAC 173-303-680\(2\)\]](#)
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