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PART III, OPERATING UNIT 8
UNIT-SPECIFIC PERMIT CONDITIONS
222-S DANGEROUS AND MIXED WASTE TREATMENT STORAGE AND DISPOSAL UNIT

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**PART III, OPERATING UNIT 8
UNIT-SPECIFIC PERMIT CONDITIONS**

222-S DANGEROUS AND MIXED WASTE TREATMENT STORAGE AND DISPOSAL UNIT

UNIT DESCRIPTION

Permittees may store and treat the following wastes, which are approved for storage and treatment at the 222-S Operating Unit Group: dangerous or mixed waste that is generated from processes at the Hanford site, or waste that is specifically identified in Section II, paragraph 8 of the Settlement Agreement re: Washington v. Bodman, Civil No. 2:30-cv-05018-AAM, January 6, 2006. No other wastes may be stored or treated at 222-S Operating Unit Group unless authorized via a permit modification decision pursuant to Permit Condition I.C.3. Requests for Permit modifications must be accompanied by an evaluation adequate for Ecology to comply with SEPA.

The 222-S Operating Unit Group includes four dangerous waste management units:

1. 222-S Dangerous and Mixed Waste Storage Area (DMWSA).
2. Room 4-E container storage area.
3. Room 2-B container storage area (Northern portion of Room 2-B).
4. 219-S Waste Handling Facility.

The DMWSA is located north of the 222-S Laboratory building.

Rooms 2-B and 4-E are located within (north side) the 222-S Laboratory building, which is located in the 200 West Area of the Hanford Facility.

The 219-S Waste Handling Facility includes the 219-S Tank System (tanks 101, 102, 103, and 104 and ancillary equipment), operating gallery, and sample gallery, and is located northeast of the 222-S Laboratory building.

The 222-S Laboratory began laboratory and waste management operations in June 1951.

LIST OF ADDENDA

Addendum A	Part A Form, dated October 1, 2008
Addendum B	Waste Analysis Plan
Addendum C	Process Information
Addendum D	Groundwater - 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 SPECIFIC TO OPERATING UNIT GROUP 8

DMWSA	Dangerous and Mixed Waste Storage Area
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1 **III.8.A COMPLIANCE WITH UNIT-SPECIFIC PERMIT CONDITIONS**

2 The Permittees will comply with all conditions in this Chapter and its addenda for the 222-S
3 Operating Unit Group with respect to dangerous waste management and dangerous waste
4 management units in Operating Unit Group 8, in addition to applicable requirements in Part I
5 and II.

6 **III.8.B GENERAL WASTE MANAGEMENT**

7 **III.8.B.1** The Permittees is authorized to accept, according to the requirements of the Waste Analysis
8 Plan in Addendum B, dangerous/mixed waste for management in Operating Unit Group 8
9 dangerous waste management units.

10 **III.8.C WASTE ANALYSIS**

11 **III.8.C.1** The Permittees will comply with requirements in Addendum B, Waste Analysis Plan, for all
12 dangerous and/or mixed waste managed at the 222-S Operating Unit Group. [[WAC 173-303-](#)
13 [300\(5\)](#)]

14 **III.8.C.2** The Permittees will comply with the requirements of [WAC 173-303-395](#)(1), (2), and (6).

15 **III.8.D RECORDKEEPING AND REPORTING**

16 **III.8.D.1** The Permittees will keep records as required by Permit Condition II.I.

17 **III.8.D.2** The Permittees will keep summary reports and details of all incidents that require
18 implementation of the Contingency Plan according to the requirements of Permit Condition
19 II.A.1 [[WAC 173-303-380](#)(1)(d)]

20 **III.8.E SECURITY**

21 **III.8.E.1** The Permittees will implement and maintain the practices described in Addendum E,
22 Security, as required by Permit Condition II.L at the 222-S Operating Unit Group. [[WAC](#)
23 [173-303-310](#)]

24 **III.8.F PREPAREDNESS AND PREVENTION**

25 **III.8.F.1** The Permittees will comply with the Preparedness and Prevention requirements, procedures
26 and practices described in Addendum F in addition to [WAC 173-303-340](#).

27 **III.8.G CONTINGENCY PLAN**

28 **III.8.G.1** The Permittees will comply with Addendum J in addition to the requirements of Permit
29 Condition II.A when applicable. [[WAC 173-303-350](#)]

30 **III.8.H INSPECTIONS**

31 **III.8.H.1** The Permittees will implement the practices specific to the 222-S Operating Unit Group as
32 described in Addendum I, Inspection Plan, and include the inspection requirements of
33 Addendum I in the inspection schedule required by Permit Condition II.X. [[WAC 173-303-](#)
34 [320](#)]

35 **III.8.H.2** The Permittees will keep a copy of the elements of the inspection log or summary required by
36 Permit Condition II.X specific to 222-S Operating Unit Group in the Operating Unit Group 8
37 section of the facility operating record required by Permit Condition II.I.2. [[WAC 173-303-](#)
38 [380](#)(1)(e)]

39 **III.8.I TRAINING**

40 **III.8.I.1** The Permittees will include the training requirements described in Addendum G, Personnel
41 Training, in the training program required by Permit Condition II.C. [[WAC 173-303-330](#)]

- 1 **III.8.J OTHER GENERAL REQUIREMENTS- RESERVED**
- 2 **III.8.K CLOSURE**
- 3 **III.8.K.1** The Permittees will close dangerous waste management units in Operating Unit Group 8 in
4 accordance with Addendum H, Closure Plan. [[WAC 173-303-610\(3\)](#)]
- 5 **III.8.K.2** The Permittees will provide Ecology with a Notice of Closure according to Permit Condition
6 II.J.1. The notice of closure may apply to a subset of dangerous waste management units in
7 the 222-S Operating Unit Group if they are to be closed in advance of the remaining
8 dangerous waste management units in Operating Unit Group 8.
- 9 **III.8.L POST-CLOSURE – RESERVED**
- 10 **III.8.M CRITICAL SYSTEMS--(WTP only)--RESERVED**
- 11 **III.8.N RESERVED**
- 12 **III.8.O CONTAINERS**
- 13 **Container Storage and Treatment Unit Standards**
- 14 **III.8.O.1** The Permittees will ensure that all containers remain in good condition. If a container
15 holding mixed and dangerous waste is not in good condition (e.g., severe rusting or corrosion,
16 or apparent structural defects), or if it begins to leak, the Permittees must transfer the waste
17 from the container to a container that is in good condition or place the leaking container in an
18 appropriate over-pack container. [[WAC 173-303-630\(2\)](#)]
- 19 **Container Management Standards**
- 20 **III.8.O.2** The Permittees will maintain and manage wastes in accordance with the requirements,
21 procedures, and practices described in Addendum C in addition to [WAC 173-303-630](#).
- 22 **III.8.O.3** The contents of any leaking container will be transferred as soon as possible considering
23 safety of the work force to a compatible container which is in good condition or to an over-
24 pack container. Any waste residue remaining in the damaged container will be managed as a
25 dangerous waste unless the container is empty pursuant to [WAC 173-303-160\(2\)](#).
- 26 **III.8.P TANK SYSTEMS**
- 27 **Tank System Requirements**
- 28 **III.8.P.1** The Permittees will comply with the schedule for conducting integrity assessments for the
29 tank system as described in Addendum C and the requirements in [WAC 173-303-640\(3\)\(b\)](#).
- 30 **III.8.P.2** If there is indication that a tank system is leaking or unfit for use, the Permittees will comply
31 with [WAC 173-303-640\(7\)](#).
- 32 **Tank System Operating Requirements**
- 33 **III.8.P.3** The Permittees will not place dangerous wastes or treatment reagents in the tank system if
34 they could cause the tank, ancillary equipment, or the containment system to rupture, leak,
35 corrode or fail. [[WAC 173-303-640\(5\)\(a\)](#)]
- 36 **III.8.P.4** The Permittees will comply with the requirements of [WAC 173-303-640\(7\)](#), in response to
37 spills or leaks from the 219-S Tank System. [[WAC173-303-640\(5\)\(c\)](#)]
- 38 **III.8.P.5** The Permittees will ensure that incompatible wastes/material are not placed in the same tank
39 system, unless [WAC 173-303-395\(1\)\(b\)](#) is complied with. [[WAC 173-303-640\(10\)\(a\)](#)]

1 **III.8.P.6** The Permittees will not place dangerous waste in a tank system that has not been previously
2 decontaminated and that previously held an incompatible waste/material, unless [WAC 173-](#)
3 [303-395\(1\)\(b\)](#) is complied with. [[WAC 173-303-640\(10\)\(b\)](#)]

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