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**PART V, CLOSURE UNIT GROUP 20 CONDITIONS  
NON-RADIOACTIVE DANGEROUS WASTE LANDFILL (NRDWL)  
AND SOLID WASTE LANDFILL (SWL)**

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1                                   **PART V, CLOSURE UNIT GROUP 20 CONDITIONS**  
2                                   **NON-RADIOACTIVE DANGEROUS WASTE LANDFILL (NRDWL)**  
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4   **UNITS DESCRIPTION**

5   The 600 Area Central Landfill (600 CL) otherwise referred to as the Nonradioactive Dangerous Waste  
6   Landfill (NRDWL) and the Solid Waste Landfill (SWL) was one unit between 1973 and 1975 when both  
7   units received hazardous waste from the Hanford site. In 1975, the 600 Area landfill was divided into two  
8   units because of the nature of the waste disposed at the NRDWL and SWL. The NRDWL was regulated  
9   under Chapter [173-303 WAC](#). The SWL received non-dangerous solid waste (SWL) was regulated under  
10   Chapter [173-350 WAC](#).

11   **The Non-Radioactive Dangerous Waste Landfill (NRDWL)**

12   The Non-Radioactive Dangerous Waste Landfill (NRDWL) is a 10 acre land disposal unit that consists of  
13   19 unlined trenches approximately 400 feet long, 16 feet wide at the base, and 15 feet deep. Six trenches  
14   (trenches 19N, 26, 28, 31, 33, and 34) were used for disposal of dangerous waste. Asbestos was disposed  
15   in nine trenches (trenches 2N, 20, 21, 22, 23, 25, 27, 29, and 30). Nonhazardous waste was disposed in  
16   trench 1N. The dangerous waste trenches of NRDWL have a total design capacity of 5 acre-feet.

17   The NRDWL was used from January 1975 through May 1985 for the disposal of dangerous waste  
18   generated from various Hanford Site operations. The NRDWL is an inactive landfill it ceased receiving  
19   nonradioactive dangerous waste for disposal in May 1985. This waste consists of listed waste, waste  
20   from nonspecific sources, characteristic waste, and state only waste. NRDWL provided disposal of  
21   dangerous wastes generated from process operations, research and development laboratories, maintenance  
22   activities and transportation functions located throughout the Hanford Facility. Figure 2-2 of Addendum  
23   H shows the summary of waste disposed in NRDWL.

24   **The Solid Waste Landfill (SWL)**

25   The Solid Waste Landfill (SWL), centrally located within the 600 Area of the Hanford Site, is an  
26   inactive unit. The SWL is located adjacent to the NRDWL described above. In 1992, Ecology  
27   assumed the regulatory responsibility for the landfill by pre-empting the Benton- Franklin Public Health  
28   Department from regulating the SWL. The SWL is approximately 26 ha (66 acres). It is divided into five  
29   units, each consisting of a series of parallel trenches. The two oldest units are identified as the Phase I  
30   area, covering approximately 11 ha (28 acres), and was active between 1973 and 1982. Phase II was  
31   constructed in 1982 and covers approximately 15 ha (38 acres) as an addition to the southern half of the  
32   SWL. Figure 2-2 of Addendum H shows the summary of waste disposed in SWL.

33   **LIST OF ADDENDA**

|                  |   |
|------------------|---|
| 34    Addendum A | Part A Form, Revision 7, dated 10-1-2008              |
| 35    Addendum B | Waste Analysis/Sampling and Analysis Plans -Reserved  |
| 36    Addendum C | Process Information -Reserved                         |
| 37    Addendum D | Groundwater Monitoring (DOE/RL-2010-28, Revision 1)   |
| 38    Addendum E | Security Requirements (See Attachment 3)              |
| 39    Addendum F | Preparedness and Prevention –Reserved                 |
| 40    Addendum G | Personnel Training                                    |
| 41    Addendum H | Closure /Post-Closure Plan (DOE/RL-90-17, Revision 2) |

|   |            |                            |
|---|------------|----------------------------|
| 1 | Addendum I | Inspection Requirements    |
| 2 | Addendum J | Contingency Plan- Reserved |

3 **DEFINITIONS**

4 Reserved

5 **ACRONYMS**

|    |         |  |
|----|---------|--|
| 6  | Ecology | Washington State Department of Ecology               |
| 7  | HFFACO  | Hanford Federal Facility Agreement and Consent Order |
| 8  | NRDWL   | Non-Radioactive Dangerous Landfill                   |
| 9  | SEPA    | State Environmental Policy Act                       |
| 10 | SWL     | Solid Waste Landfill                                 |
| 11 | USDOE   | United States Department of Energy                   |

12 **V.20.A COMPLIANCE WITH PERMIT CONDITIONS**

13 The Permittees will comply with all permit conditions in this permit unit and its addenda  
14 with respect to the applicable requirements in Part I and Part II of the Hanford Facility  
15 Dangerous Waste Permit.

16 **V.20.B GROUNDWATER MONITORING REQUIREMENTS FOR REGULATED UNITS**

17 The Permittees will implement the groundwater monitoring plans contained in  
18 Addendum D to this permit unit. Compliance with this plan will satisfy the groundwater  
19 protection and monitoring requirements cited in Permit Condition II.F 1.

20 **V.20.C RECORDKEEPING AND REPORTING**

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

25 **V.20.D SECURITY**

26 The Permittees will post signs at access points to the closing landfills stating the  
27 following (or an equivalent legend): Danger – Unauthorized Personnel Keep Out. These  
28 signs will be written in English, legible from a distance of 7.6 meters (25 feet), and  
29 visible from all angles of approach. [[WAC 173-303-310\(2\)\(a\)](#)]

30 **V.20.E TRAINING PLAN**

31 The Permittees will comply with the training requirements as described in Permit  
32 Condition II.C (Personnel Training), Permit Attachment 5 (Hanford Facility Personnel  
33 Training Plan), and Addendum G (Personnel Training).

34 **V.20.F CLOSURE**

35 **V.20.F.1** The Permittees will implement the practices as described in Addendum H, Closure Plan,  
36 and Permit Condition II.J for closure of NRDWL [[WAC 173-303-610\(4\)](#)].

37 **V.20.F.2** 24 months prior to initiation of closure activities, the Permittees will submit to Ecology a  
38 Class III permit modification request in accordance with [WAC 173-303-830](#)  
39 requirements. This Class III modification request will be to incorporate the final  
40 engineering design of the closure and post-closure plan into Addendum H, of this unit-  
41 specific Chapter. The permit modification request must contain information required by  
42 [WAC 173-303-806\(4\)\(a\)\(xiii\)](#) and (xx). The final engineering design shall be based on  
43 performance standards specific to evapo-transpiration barriers acceptable to Ecology, and

1 supported by validated modeling analysis representative of the performance of evapo-  
2 transpiration barriers, and monitoring requirements and evaluation criteria necessary to  
3 validate performance of the installed cover.

4 **V.20.G INSPECTIONS**

5 **V.20.G.1** The Permittees will follow the inspection schedule in Addendum I and Permit Condition  
6 II.X until closure of the unit.

7 **V.20.G.2** 90 days prior to initiation of closure activities, the Permittees will submit a Class II  
8 modification to Addendum I that will specify the inspection schedule after the cover has  
9 been installed for warning signs, run-on and run-off control, subsidence, wind dispersal  
10 control systems, vegetation stability, and the lysimeter.

11 **V.20.H PROJECT SPECIFIC BIOLOGIC MITIGATION PLAN**

12 The Permittees will submit a project specific biological mitigation plan for Ecology  
13 review and approval 180 days before the initiation of closure activities. The biological  
14 mitigation plan shall include specific mitigation measures to protect vegetation plant  
15 species, avian species, and mammalian species in the Washington State Natural Heritage  
16 Program element occurrence of the bitterbrush/Indian ricegrass sand dune complex  
17 surrounding the NRDWL/SWL [[WAC 197-11-960](#) B.4 and B.5]. The biological  
18 mitigation plan shall also list specific mitigation measures to mitigate significant adverse  
19 impacts to two cultural resources of concern next to the Army Loop Road between Beloit  
20 Avenue and the northwest corner of the NRDWL [[WAC 197-11-960](#).B.13].

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