
Hanford Facility RCRA Permit Modification Notification Forms

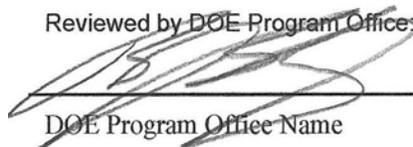
Parts I & II (Standard & General Facility Conditions)

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Reviewed by DOE Program Office:



DOE Program Office Name

4/20/20

Date

| Hanford Facility RCRA Permit Modification Form | | | | |
|---|---|---|-------------|-------------|
| Unit: Not Applicable | Permit Part Parts I & II (Standard & General Facility Conditions) | | | |
| <p><u>Description of Modification:</u></p> <p>Pages 14 and 15 need to be revised to reflect permit change history information for the PUREX Storage Tunnels. Pages 49-50 need to be revised to indicate the PUREX Storage Tunnels unit group specific requirements are located in Part V. These revisions are associated with permit modification number 8C.2018.5F (Ecology Letter Number 18-NWP-195, dated 12/17/18).</p> <p>Pages 13 and 15 need to be revised to reflect permit change history information for the 276-BA Storage Area. Pages 49-50 need to be revised to indicate 276-BA Storage Area unit group specific requirements are located in Part V. These revisions are associated with permit modification number 8C.2019.5F (Ecology Letter Number 19-NWP-084, dated 5/29/19).</p> | | | | |
| WAC 173-303-830 Modification Class Please mark the Modification Class: | Class 1 X | Class 11 | Class 2 | Class 3 |
| Enter relevant WAC 173-303-830, Appendix I Modification citation number: A.1 Administrative and informational changes | | | | |
| Modification Concurrence: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Reviewed by Ecology: Schleif, Stephanie (ECY) <div style="font-size: small; margin-top: 5px;"> Digitally signed by Schleif, Stephanie (ECY) Date: 2020.04.27 15:03:59 -0700' </div> | | |
| | | S. N Schleif | Date | |

Instructions:

Revise Parts I & II as shown herein.

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3
4**Unit Status Table**

| Permit Revision | Revision Date | Units Incorporated |
|--|----------------------|--|
| Permit Revision 0 | 8/29/94 | 616 NDWSF, 305-B Storage Facility, 183-H SEB, 300 ASE, 2727-S, NRDWSF |
| Permit Revision 1 | 4/28/95 | Simulated High-Level Waste Slurry, 218-E-9 Borrow Pit Demo Site, 200 W Area Ash Pit Demo Site, 2101-M Pond, 216-B-3 Expansion Ponds |
| Permit Revision 2 | 8/29/95 | Hanford Patrol Academy Demolition Site, 105-DR Large Sodium Fire Facility, 304 Concretion Facility |
| Permit Revision 3 | 11/25/96 | PUREX Storage Tunnels, 4843 Alkali Metal Storage Facility, 3718-F Alkali Metal Treatment & Storage Facility, 303-K Storage Facility, 300 APT |
| Permit Revision 4 | 1/28/98 | LERF & 200 Area ETF, 242-A Evaporator, 325 HWTUs |
| Permit Revision 5 | 5/18/99 | 100 D Ponds, 1301-N & 1325-Liquid Waste Disposal Facility, 1324-N Surface Impoundment, 1324-NA Percolation Pond |
| Permit Revision 6 | 3/28/00 | Permit Condition II.Y, Corrective Action |
| Permit Revision 7 | 2/27/01 | Waste Treatment & Immobilization Plant, 300 Area WATS |
| Permit Revision 8 | 9/23/04 | No new units, modification updates |
| Permit Revision 8A | 3/6/06 | Integrated Disposal Facility |
| Permit Revision 8B | 1/2007 | 331-C Storage Unit, PFP Treatment Unit, 241-Z Treatment & Storage Tanks, 303-M Oxide Facility |
| Permit Revision 8C | 8/2007 | 400 Area Waste Management Unit, 224-T TRUSAF |
| Permit Revision 8C (8C.2016.2F) | 01/21/2016 | FS-1 Outdoor Container Storage Area Closure |
| Permit Revision 8C (8C.2016.6F) | 10/6/2016 | 207-A South Retention Basins |
| Permit Revision 8C (8C.2017.Q1) | 04/26/2017 | 1706 KE Waste Treatment System |
| Permit Revision 8C (8C.2017.Q1) | 04/26/2017 | 600 Area Purgewater Storage and Treatment Facility |
| <u>Permit Revision 8C (8C.2019.5F)</u> | <u>05/29/19</u> | <u>276-BA Storage Area closure</u> |

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| Unit | Permit Revision | | Comments/History |
|--|-----------------|---------|---|
| | Incorporated | Retired | |
| Part III, Operating Units | | | |
| 616 Non-Radioactive Dangerous Waste Storage Facility | Rev. 6 | Rev. 7 | Closed, 9/5/01 |
| 242-A Evaporator | Rev. 4 | | |
| 305-B Storage Facility | Rev. 0 | | Closed, 7/2/07 |
| 325 Hazardous Waste Treatment Units | Rev. 4 | | RLWT procedural closure, 9/04 |
| LERF & 200 Area ETF | Rev. 4 | | |
| PUREX Storage Tunnels | Rev. 3 | | <u>Unit group requirements were moved from Part III to Part V Revision 8C (8C.2019.5F, 12/17/18).</u> |
| Waste Treatment and Immobilization Plant | Rev. 7 | | Permitted unit under construction |
| Integrated Disposal Facility | Rev. 8A | | |
| 331-C Storage Unit | Rev. 8B | Rev. 8C | Closed, 7/22/11 |
| 400 Area Waste Management Unit | Rev. 8C | | |
| Part IV, Corrective Action | | | |
| 100-NR-1 Operable Unit | Rev. 6 | | |
| 100-NR-2 Operable Unit | Rev. 6 | Rev. 8C | Retired, 9/30/09 |
| Part V, Undergoing Closure Units | | | |
| 100-D Ponds | Rev. 5 | Rev. 6 | Closed, 8/9/99 |
| 105 DR Large Sodium Fire Facility | Rev. 2 | Rev. 6 | Closed, 7/1/04 |
| 1301-N Liquid Waste Disposal Facility | Rev. 5 | Rev. 8C | Closed, 11/28/18 |
| 1324-N Surface Impoundment | Rev. 5 | Rev. 8C | Closed, 04/25/17 |
| 1324-NA Percolation Pond | Rev. 5 | Rev. 8C | Closed, 04/25/17 |
| 1325-N Liquid Waste Disposal Facility | Rev. 5 | Rev. 8C | Closed, 11/28/18 |
| 200 West Area Ash Pit Demo Site | Rev. 1 | Rev. 6 | Closed, 11/28/95 |
| 2101-M Pond | Rev. 1 | Rev. 6 | Closed, 11/28/95 |
| 216-B-3 Expansion Ponds | Rev. 1 | Rev. 6 | Closed, 7/31/95 |
| 218-E-8 Borrow Demolition Site | Rev. 1 | Rev. 6 | Closed, 11/28/95 |
| 2727-S Storage Facility | Rev. 0 | Rev. 6 | Closed, 7/31/95 |
| 300 Area Solvent Evaporator | Rev. 0 | Rev. 6 | Closed, 7/31/95 |

Part I Standard and Part II General Facility Conditions

| Unit | Permit Revision | | Comments/History |
|--|-----------------|---------|---|
| | Incorporated | Retired | |
| 300 Area Waste Acid Treatment System | Rev. 6 | Rev. 8B | Closed, 1/21/05 |
| 303-K Storage Facility | Rev. 4 | Rev. 6 | Closed, 7/22/02 |
| 304 Concretion Facility | Rev. 2 | Rev. 6 | Closed, 1/21/96 |
| 311 Tanks (includes 300 Area WATS) | Rev. 6 | Rev. 7 | Closed, 5/20/02 |
| 3718-F Alkali Metal Treatment/Storage | Rev. 3 | Rev. 6 | Closed, 8/4/98 |
| 4843 Alkali Metal Storage Facility | Rev. 3 | Rev. 6 | Closed, 4/14/97 |
| Hanford Patrol Academy Demo Site | Rev. 2 | Rev. 6 | Closed, 11/28/95 |
| Simulated High Level Waste Slurry | Rev. 1 | Rev. 6 | Closed, 9/6/95 |
| PFP Treatment Unit (HA-20MB) | Rev. 8B | Rev. 8B | Closed, 2/8/05 |
| 241-Z Treatment and Storage Tanks | Rev. 8B | Rev. 8B | Closed, 2/22/07 |
| 303-M Oxide Facility | Rev. 8B | Rev. 8B | Closed, 6/15/06 |
| 224-T Transuranic Waste Storage and Assay Facility | Rev. 8C | Rev. 8C | Closed, 11/12/08 |
| FS-1 Outdoor Container Storage Area Closure | Rev. 8C | Rev. 8C | Closed, 10/25/16 |
| Waste Encapsulation and Storage Facility Hot Cells A through F | Rev. 8C | | |
| 207-A South Retention Basins | Rev. 8C | Rev. 8C | Closed, 05/18/17 |
| 1706 KE Waste Treatment System | Rev. 8C | Rev. 8C | Closed, 1/11/18 |
| 600 Area Purgewater Storage and Treatment Facility | Rev. 8C | Rev. 8C | Closed, 02/16/18 |
| <u>PUREX Storage Tunnels</u> | <u>Rev. 8C</u> | | <u>Unit group requirements were moved from Part III to Part V Revision 8C (8C.2019.5F, 12/17/18).</u> |
| <u>276-BA Storage Area</u> | <u>Rev. 8C</u> | | |
| Part VI, Postclosure Units | | | |
| 183-H Solar Evaporation Basin | Rev. 4 | | |
| 300 Area Process Trenches | Rev. 3 | | |
| Procedurally Closed | | | |

1 **II.Z.1.b** The proposed method of treatment, storage or disposal is that practicable method
 2 currently available to the Permittee, which minimizes the present and future threat to
 3 human health and the environment.

4 **II.Z.2** The Permittee will maintain each such certification of waste minimization in the
 5 operating record as required by Permit Condition II.I.1.

6 **II.AA Air Emission Standards for Process Vents**

7 The Permittees will comply with applicable requirements of WAC 173-303-690 for
 8 process vents associated with Part III units performing specific separations processes
 9 unless exempted by WAC 173-303-690(1)(d). Threshold limits applied to process vents
 10 potentially requiring emission controls subject to WAC 173-303-690 are evaluated based
 11 on the summation of applicable emission sources for the entire Hanford Facility. When
 12 the summed emissions fall below threshold limits in 40 CFR 264.1032(a)(1), no emission
 13 control devices are required. If threshold limits in 40 CFR 264.1032(a)(1) are predicted
 14 to be exceeded, the Permittees will notify Ecology to determine the appropriate course of
 15 action. Unit-specific information is contained in Part III of the Permit for applicable
 16 units.

17 **II.BB Air Emission Standards for Equipment Leaks**

18 The Permittees will comply with applicable requirements of WAC 173-303-691 for
 19 certain equipment leaks associated with Part III units unless exempted by
 20 WAC 173-303-691(1)(e) or (f). Air emission standards apply to equipment that contacts
 21 or contains hazardous wastes with organic concentrations of at least 10 percent by
 22 weight. Unit-specific information is contained in Part III of the Permit for applicable
 23 units.

24 **II.CC Air Emission Standards for Tanks, Surface Impoundments, and Containers**

25 The Permittees shall comply with applicable requirements of WAC 173-303-692 for
 26 containers, tanks, and surface impoundment areas associated with Part III units unless
 27 exempted by WAC 173-303-692(1)(b). Unit-specific information is contained in Part III
 28 of the Permit for applicable units.

29 **PART III UNIT-SPECIFIC CONDITIONS FOR FINAL STATUS OPERATIONS**

30 ~~Operating Unit 2, PUREX Storage Tunnels~~

31 Operating Unit 3, Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility

32 Operating Unit 4, 242-A Evaporator

33 Operating Unit 5, 325 Hazardous Waste Treatment Units

34 Operating Unit 10, Waste Treatment and Immobilization Plant

35 Operating Unit 11, Integrated Disposal Facility

36 Operating Unit 16, 400 Area Waste Management Unit

37 Operating Unit 19, Capsule Interim Storage

38 **PART IV UNIT SPECIFIC CONDITIONS FOR CORRECTIVE ACTION**

39 Corrective Action Unit 1, 100-NR-1

40 **PART V UNIT-SPECIFIC CONDITIONS FOR UNITS UNDERGOING CLOSURE**

41 Closure Unit 6, Waste Encapsulation and Storage Facility Hot Cells A through F

1 Closure Unit 25, PUREX Storage Tunnels

2 Closure Unit 32, 276-BA Organic Storage Area

3 **PART VI UNIT-SPECIFIC CONDITIONS FOR UNITS IN POST-CLOSURE**

4 Post Closure Unit 1, 300 Area Process Trenches

5 Post Closure Unit 2, 183-H Solar Evaporation Basins

6 **UNITS RETIRED FROM THE PERMIT**

7 100 D Ponds (Closed 8/9/99)

8 105-DR Large Sodium Fire Facility (Closed 7/1/04)

9 100-NR-2 Operable Unit (9/30/09)

10 200 West Area Ash Pit Demolition Site (Closed 11/28/95)

11 2101-M Pond (Closed 11/28/95)

12 216-B-3 Expansion Ponds (Closed 7/31/95)

13 218-E-8 Borrow Pit Demolition Site (Closed 11/28/95)

14 224-T Transuranic Waste Storage and Assay Facility (Closed 11/12/08)

15 241-Z Treatment and Storage Tanks (Closed 2/22/07)

16 2727-S Nonradioactive Dangerous Waste Storage Facility (Closed 7/31/95)

17 300 Area Solvent Evaporator (Closed 7/31/95)

18 300 Area Waste Acid Treatment System (Closed 10/30/2005)

19 303-K Storage Facility (Closed 7/22/02)

20 303-M Oxide Facility (Closed 6/15/06)

21 304 Concretion Facility (Closed 1/21/96)

22 305-B Storage Facility (Closed 7/2/07)

23 3718-F Alkali Metal Treatment and Storage Facility Closure Plan (Closed 8/4/98)

24 4843 Alkali Metal Storage Facility Closure Plan (Closed 4/14/97)

25 Hanford Patrol Academy Demolition Site (Closed 11/28/95)

26 Plutonium Finishing Plant Treatment Unit (Closed 2/8/05)

27 Simulated High Level Waste Slurry Treatment and Storage Unit (Closed 10/23/95)

28 FS-1 Outdoor Container Storage Area (Closed 10/25/2016)

29 616 Non-Radioactive Dangerous Waste Storage Facility (Closed 9/5/01)

30 331-C Storage Unit (Closed 7/22/11)

31 207-A South Retention Basin (Closed 5/18/17)

32 1324-N Surface Impoundment & 1324-NA Percolation Pond (Closed 4/25/2017)

33 1706-KE Waste Treatment System Facility (Closed 1/11/18)

34 600 Area Purgewater Storage and Treatment Facility (Closed 2/16/18)

35 1301-N Liquid Waste Disposal Facility (Closed 11/28/18)