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**DRAFT HANFORD AIR OPERATING PERMIT
PERMIT NO. 00-05-06
RENEWAL 2, REVISION A**

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1 **1.0 EMISSION STANDARDS**

2 Radioactive air emission standards for the State of Washington are contained in WAC 173-480-040,
3 173-480-050, 173-480-060 and in 40 CFR Part 61, Subparts H. In accordance with WAC 173-480-050
4 Health shall enforce the most stringent standard in effect.

5 Under WAC 246-247-040(5), the department may set limits on emission rates for specific
6 radionuclides for specific emission units and/or set requirements and limitations on the operation of
7 emission unit(s) as specified in this license. Health establishes emission limits in Notice Of
8 Construction (NOC) approvals or upon baseline emissions from an emission unit.

9 All new construction and significant modifications of emission units from August 10, 1988 until the
10 termination of this license, shall utilize BARCT per WAC 246-247-040(3).

11 All existing emission units and insignificant modifications shall utilize ALARACT. [WAC 246-247-
12 040(4)]

13

14 **2.0 MONITORING, TESTING, QUALITY ASSURANCE, REPORTING AND RECORD** 15 **KEEPING**

16 Emission units with a potential-to-emit less than 0.1 mrem/yr TEDE to the MEI may estimate those
17 radionuclide emissions, in lieu of monitoring, in accordance with 40 CFR 61 Appendix D, or other
18 procedure approved by the department. The department may require periodic confirmatory monitoring
19 methods approved by the department under WAC 246-247-075(3).

20 WAC 246-247-075(11) requires the licensee to address accidental releases when planning for any new
21 construction or significant modification of the emission unit if the probability of occurrence during the
22 expected life of the emission unit is greater than one percent. Refer to tables 1.1, 1.2, 1.3 and section
23 2.1 of the license.

24 **2.1 Requirements for Diffuse or Fugitive Sources in Table 2.1**

25 Section 5 of Attachment 2 describes the requirements for monitoring and reporting of diffuse or
26 fugitive source emissions. The ambient air monitoring conducted at the Hanford Site has been
27 accepted by the department as the method for demonstrating compliance to emissions limits for diffuse
28 and fugitive sources. Those sources with Emission Unit specific conditions and limitations within the
29 FF-01 License must be monitored and meet the applicable quality assurance and analysis requirements.
30 All required ambient air monitors shall be identified along with their data measurements in the annual
31 Radionuclide Air Emissions Report.

32 Quality Assurance and Analysis

33 All required ambient air samples collected and analyzed must be compatible with the quality assurance
34 requirements of national standards such as NQA-1, EPA QA/R-5, and Method 114 as applicable. Near-
35 facility ambient air samples from individual stations must be composited at a frequency no greater than
36 6 months.

37 Modifications to the Diffuse and Fugitive Environmental Monitoring

38 Prior to making modifications (i.e., moving, or removing air sample locations, or changing the
39 sampling period) to the accepted periodic confirmatory measurement (for minor diffuse and fugitive
40 sources) and continuous measurement (for major diffuse and fugitive sources) the Department of
41 Health, Radioactive Air Emissions Section shall approve a written request for the modifications. The

1 request for modification may take the form of an email or formal letter. Analysis of other media
2 samples will be conducted at labs with the appropriate quality assurance programs in-place.

3 **2.2 Compliance Assurance Monitoring for Legacy Sources Discovered on Site**

4 In the course of Hanford’s 50-year history radioactive waste products may have been disposed of by
5 means not allowed by today’s standards. These disposal areas represent potential diffuse or passively
6 ventilated point sources of radioactive airborne emissions. The license describes actions that must be
7 taken upon the licensee discovering any category of diffuse or passively ventilated point sources. These
8 actions include a means to establish methods for determining compliance assurance.

9 Categories of emission units or other specific emission units not identified in existing Tables, will meet
10 the requirements for periodic confirmatory monitoring, recordkeeping, and reporting found in
11 Attachment 2. The annual Radionuclide Air Emissions Report for the Hanford Site satisfies the
12 reporting requirements.

13

14 **3.0 EMISSION UNIT IDENTIFICATION DESCRIPTIONS USED IN ATTACHMENT 2**

15 The principle identifier used in Attachment 2 of the Air Operation Permit is the Air Emissions
16 Inventory (AEI) number. This number is assigned to an emission unit when registered with the
17 department. In addition to the Emission Unit ID number the Air Emissions Inventory (AEI) number is
18 also used as an identifier. This unique identifier was established for use in the Hanford Air Operating
19 Permit. It is based upon an alphanumeric code description indicating key information concerning the
20 operational area code, a category code, a building identifier, and type of emission point identifier code.

21 Secondary emission unit identifications were used in the permit for familiarity with the identification
22 such as the commonly used regulatory identification.

23 For facility operator’s ease of use, a plant name or tank farm was listed with the emission unit
24 identifiers.

25 In attachment 2, Health used a three digit Emission Unit ID in small font under the heading text. This
26 number is created from the database Health uses to track and generate the emission unit requirements
27 for each emission unit.

28 An example of the heading used in attachment 2 would be as follows:

29 **Emission Unit ID: 393**.....*Health’s database tracking number*
30 **200W P-291Z001***The AEI number*
31 **291-Z-1***The regulatory ID*
32 **PLUTONIUM FINISHING PLANT (Z PLANT)**.....*The associated facility/farm*

33 **AEI** number representation:

- 34 **200W** Operational area code
- 35 **P** Process emission point
- 36 **291Z** Building number
- 37 **001** Emission point identifier

38

4.0 ALARACT DEMONSTRATIONS

The following ALARACT demonstrations describe the approved methods for ALARACT compliance set forth in section 2.2 of Attachment 2 for the following approved routine activities. The ALARACTs referenced below are the latest revisions. If an emission unit license references an older ALARACT revision (1, 2, etc.) then the most up to date revision must be used (01.1, 02.1, etc.). The revision number is designated by the number following the decimal place.

| ALARACT Number | ALARACT Demonstration Title |
|-----------------------|---|
| 01.1 | TANK FARM ALARACT DEMONSTRATION FOR RISER PREPARATION/OPENING |
| 02.2 | TANK FARM ALARACT DEMONSTRATION FOR INSTALLATION/OPERATION/REMOVAL OF PUSH MODE CORE SAMPLING EQUIPMENT |
| 03.1 | TANK FARM ALARACT DEMONSTRATION FOR INSTALLATION/OPERATION/REMOVAL OF AUGER SAMPLING EQUIPMENT |
| 04.1 | TANK FARM ALARACT DEMONSTRATION FOR PACKAGING AND TRANSPORTATION OF WASTE |
| 05.1 | TANK FARM ALARACT DEMONSTRATION SOIL EXCAVATION |
| 06.1 | TANK FARM ALARACT DEMONSTRATION FOR PIT ACCESS |
| 07.1 | TANK FARM ALARACT DEMONSTRATION FOR TANK WASTE GRAB SAMPLING |
| 08.1 | TANK FARM ALARACT DEMONSTRATION FOR VAPOR SAMPLING |
| 10.1 | TANK FARM ALARACT DEMONSTRATION FOR WATER LANCING |
| 11.1 | TANK FARM ALARACT DEMONSTRATION FOR WASTE TRANSFERS |
| 12.1 | TANK FARM ALARACT DEMONSTRATION FOR PACKAGING AND TRANSPORTATION OF EQUIPMENT & VEHICLES |
| 13.1 | TANK FARM ALARACT DEMONSTRATION FOR INSTALLATION, OPERATION, AND REMOVAL OF TANK EQUIPMENT |
| 14.1 | TANK FARM ALARACT DEMONSTRATION FOR PIT WORK. |
| 15.1 | TANK FARM ALARACT DEMONSTRATION FOR SIZE REDUCTION OF WASTE EQUIPMENT FOR DISPOSAL |

| | |
|------|--|
| 16.1 | TANK FARM ALARACT DEMONSTRATION FOR WORK ON POTENTIALLY CONTAMINATED VENTILATION SYSTEM COMPONENTS |
| 18 | ENVIRONMENTAL RESTORATION PROGRAM ALARACT DEMONSTRATION FOR DRILLING |
| 26.1 | DISPOSAL BY BURNING OF POTENTIALLY CONTAMINATED TUMBLEWEEDS |
| 28.1 | SHUTDOWN OF STACK SYSTEM(s) (Maintenance and incidental) |
| 29.1 | 242-A EVAPORATOR MAINTENANCE FACILITY SHUTDOWNS |
| 30.1 | TANK FARM ALARACT DEMONSTRATION FOR STACK EXTENSION AND PASSIVE EMISSION POINT VENTURI |

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1 **5.0 OBSOLETE EMISSION UNITS**
2

| EU ID | Stack Name |
|-------|-------------|
| 54 | 296-P-28 |
| 64 | 296-S-15 |
| 145 | 296-P-32 |
| 150 | 296-A-27 |
| 162 | 296-T-17 |
| 165 | 296-S-22 |
| 166 | 296-T-18 |
| 168 | 1706KE |
| 208 | 296-B-28 |
| 213 | 296-C-5 |
| 234 | 296-P-16 |
| 236 | 296-C-6 |
| 310 | 291-U-1 |
| 355 | EP-320-02-S |
| 357 | EP-320-04-S |

| EU ID | Stack Name |
|-------|------------------------|
| 424 | 340-B-BLDG |
| 477 | 241-ER-152 |
| 539 | Air Rotary Drilling |
| 541 | Air Hammer Drilling |
| 714 | P-244CR-003 |
| 809 | 200E 216A-2-2 |
| 874 | Concrete Containers |
| 891 | 100 K diffuse/fugitive |
| 899 | 200-E-120 |
| 905 | 216-A-40 |
| 964 | 291-U |
| 965 | 600-148 |
| 973 | 116-K-3 |
| 997 | Storage Building |
| 998 | Storage Building |

| EU ID | Stack Name |
|-------|-------------------------------------|
| 1054 | Pump House |
| 1056 | Dry Chemical Warehouse |
| 1064 | U Plant Administration Building |
| 1065 | Sodium Storage Building |
| 1069 | Warehouse Essential Materials |
| 1075 | Solvent Recovery Tanks |
| 1076 | Backup Generator Facility |
| 1077 | Water Storage Tanks and Lines |
| 1082 | Cooling Water Sampling Building |
| 1090 | Sample Station #2 |
| 1092 | Sample Station #3 |
| 1109 | Stack Monitoring Station |
| 1119 | PDD Monitoring Building |
| 1121 | 307 Retention Basin |
| 1184 | Solidification Treatment Unit (STU) |

| EU ID | Stack Name |
|--------------|-------------------|
| 358 | EP-320-01-S |
| 359 | EP-323-01-S |
| 362 | EP-326-01-S |
| 366 | EP-329-01-S |
| 417 | EP-3730-01-S |
| 422 | 340 Decon |
| 423 | 340-NT-EX |

| EU ID | Stack Name |
|--------------|---|
| 999 | Storage Building |
| 1010 | Injection Manifold Building |
| 1030 | UO3 Plant Concentration and Loadout building |
| 1037 | Treated Effluent Monitoring Building at T Plant |
| 1050 | Inert Gas Generator Building |
| 1052 | Breathing Air Compressor Building |
| 1053 | Stack Gas Monitoring Station |

| EU ID | Stack Name |
|--------------|------------------------|
| 1275 | 100 H Diffuse/Fugitive |
| 1305 | EP-320-115P-S |
| 1306 | EP-320-133P-S |
| 1307 | EP-320-138P-S |
| 1308 | EP-320-144P-S |
| 1323 | EP-320-165-V |
| 1324 | EP-320-185-V |

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1 **6.0 OBSOLETE APPLICABLE REQUIREMENTS**2 Obsolete Applicable Requirements

| 3 | EU | NOC | | Permit |
|----|-----------|------------|--|---------------|
| 4 | ID | ID | Project Title | Number |
| 5 | 50 | | | |
| 6 | | 703 | Categorical Tank Farm Facility Waste Retrieval and Closure: | AIR 09-704 |
| 7 | | | Phase II Waste Retrieval Operations (Replaced NOC ID 587) | |
| 8 | | 718 | Removal of Liquid from Catch Tank 241-ER-311(Replaced by | AIR 08-1106 |
| 9 | | | NOC 850) | |
| 10 | | 780 | Categorical Tank Farm Facility Waste Retrieval and Closure: | AIR 10-1104 |
| 11 | | | Phase II Waste Retrieval Operations (Replaced NOC ID 703) | |
| 12 | | | (Replaced by NOC 816) | |
| 13 | 57 | | | |
| 14 | | 686 | Installation and Operation of Waste Retrieval Systems in Single- | AIR 08-1103 |
| 15 | | | Shell Tank (SST) 241-S-112 (Replaced NOC ID 550) (Replaced | |
| 16 | | | by NOC ID 788) | |
| 17 | | 694 | 241-S-102 Installation and Operation of Waste Retrieval Systems | AIR 09-708 |
| 18 | | | (Replaced NOC ID 567) | |
| 19 | | 703 | Categorical Tank Farm Facility Waste Retrieval and Closure: | AIR 09-704 |
| 20 | | | Phase II Waste Retrieval Operations (Replaced NOC ID 587) | |
| 21 | | 780 | Categorical Tank Farm Facility Waste Retrieval and Closure: | AIR 10-1104 |
| 22 | | | Phase II Waste Retrieval Operations (Replaced NOC ID 703) | |
| 23 | | | (Replaced by NOC 816) | |
| 24 | | 788 | Installation and Operation of Waste Retrieval Systems in Single- | AIR 10-1202 |
| 25 | | | Shell Tank (SST) 241-S-112 (Replaces NOC ID 686) | |
| 26 | 58 | | | |
| 27 | | 694 | 241-S-102 Installation and Operation of Waste Retrieval Systems | AIR 09-708 |
| 28 | | | (Replaced NOC ID 567) | |
| 29 | | 703 | Categorical Tank Farm Facility Waste Retrieval and Closure: | AIR 09-704 |
| 30 | | | Phase II Waste Retrieval Operations (Replaced NOC ID 587) | |
| 31 | | 780 | Categorical Tank Farm Facility Waste Retrieval and Closure: | AIR 10-1104 |
| 32 | | | Phase II Waste Retrieval Operations (Replaced NOC ID703) | |
| 33 | | | (Replaced by NOC 816) | |
| 34 | 62 | | | |
| 35 | | 669 | Use of Portable Tanks and Revised Source Term Description at | AIR 06-1029 |
| 36 | | | Waste Sampling and Characterization Facility (WSCF) (Replaced | |
| 37 | | | by NOC 820) | |
| 38 | 63 | | | |
| 39 | | 669 | Use of Portable Tanks and Revised Source Term Description at | AIR 06-1029 |
| 40 | | | Waste Sampling and Characterization Facility (WSCF)(Replaced | |
| 41 | | | by NOC 820) | |
| 42 | 93 | | | |
| 43 | | 653 | 241-AY and 241-AZ Ventilation Upgrades (Replaced NOC ID 290) | AIR 06-1018 |
| 44 | | | (Replaced by NOC ID 708) | |
| 45 | | 708 | License to Operate Ventilation of the 241 AY/AZ Tank Farm | AIR 08-908 |
| 46 | | | (Replaced NOC ID 653) (Replaced by NOC ID 782) | |

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|---|-----|---|-------------|
| 1 | 714 | Installation and Operation of Waste Retrieval Systems in Tanks | AIR 06-1064 |
| 2 | | 241-AZ-101, 241-AZ-102, 241-AY-101, and 241-AY-102. | |
| 3 | 782 | License to Operate Ventilation of the 241 AY/AZ Tank Farm | AIR 10-1101 |
| 4 | | (Replaced NOC ID 708) (Replaced by NOC 840) | |
| 5 | 134 | | |
| 6 | 694 | 241-S-102 Installation and Operation of Waste Retrieval Systems | AIR 09-708 |
| 7 | | (Replaced NOC ID 567) | |

Obsolete Applicable Requirements

| 9 | EU | NOC | | Permit |
|----|-----------|------------|--|---------------|
| 10 | ID | ID | Project Title | Number |
| 11 | 142 | | | |
| 12 | | 651 | Operation of the 242-A Evaporator emission unit 296-A-22 | AIR 06-1016 |
| 13 | | | (Replaced by NOC 824) | |
| 14 | 146 | | | |
| 15 | | 690 | Operation of the Liquid Effluent Retention Facility and the 200 Area | AIR 06-1045 |
| 16 | | | Effluent Treatment Facility (Replaced NOC ID 562) | |
| 17 | | | (Replaced by NOC 822) | |
| 18 | 147 | | | |
| 19 | | 690 | Operation of the Liquid Effluent Retention Facility and the 200 Area | AIR 06-1045 |
| 20 | | | Effluent Treatment Facility (Replaced NOC ID 562) | |
| 21 | | | (Replaced by NOC 822) | |
| 22 | 148 | | | |
| 23 | | 690 | Operation of the Liquid Effluent Retention Facility and the 200 Area | AIR 06-1045 |
| 24 | | | Effluent Treatment Facility (Replaced NOC ID 562) | |
| 25 | | | (Replaced by NOC 822) | |
| 26 | 174 | | | |
| 27 | | 671 | 241-AZ Tank Farm Annulus Exhauster Operation (Replaced | AIR 06-1031 |
| 28 | | | by NOC 826) | |
| 29 | 175 | | | |
| 30 | | 681 | Calibration and Development Activities in the Radiological | AIR 06-1037 |
| 31 | | | Calibrations Laboratory (318 Building), Replaced by NOC ID 821 | |
| 32 | 193 | | | |
| 33 | | 638 | Construction and operation of the Waste Receiving and Processing | AIR 08-802 |
| 34 | | | (WRAP) Facility (Replaced NOC ID 23) | |
| 35 | 203 | | | |
| 36 | | 686 | Installation and Operation of Waste Retrieval Systems in Single | AIR 08-1103 |
| 37 | | | -Shell Tank (SST) 241-S-112 (Replaced NOC ID 550) (Replaced | |
| 38 | | | by NOC ID 788) | |
| 39 | | 788 | Installation and Operation of Waste Retrieval Systems in Single | AIR 10-1202 |
| 40 | | | -Shell Tank (SST) 241-S-112 (Replaces NOC ID 686) | |
| 41 | 204 | | | |
| 42 | | 666 | Installation and operation of Waste Retrieval System in Tanks | AIR 06-1027 |
| 43 | | | 241-AP-102 and 241-AP-104 (Replaced by NOC 828) | |
| 44 | 210 | | | |
| 45 | | 707 | Surveillance and Maintenance of the 209-E Criticality Laboratory | AIR 08-1022 |
| 46 | | 793 | Deactivation of 209-E Building (Replaces NOC ID 707)(Replaced | AIR 10-1021 |
| 47 | | | by NOC 858) | |
| 48 | | | | |
| 49 | | | | |

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|----|-----|-----|---|-------------|
| 1 | 227 | | | |
| 2 | | 668 | Installation and Operation of a Waste Retrieval System in Tanks | AIR 06-1028 |
| 3 | | | 241-AN-101,102,103, 104, 105, 106 and 107. | |
| 4 | | | (Replaced by NOC 827) | |
| 5 | 254 | | | |
| 6 | | 716 | License to Operate the 222-S Laboratory (Replaced NOC ID 637) | AIR 08-904 |
| 7 | | | (Replaced by NOC 831) | |
| 8 | 301 | | | |
| 9 | | 690 | Operation of the Liquid Effluent Retention Facility and the 200 | AIR 06-1045 |
| 10 | | | Area Effluent Treatment Facility (Replaced NOC ID 562) | |
| 11 | | | (Replaced by NOC 822) | |
| 12 | 314 | | | |
| 13 | | 711 | Consolidated T Plant Operations (Replaced by NOC 830) | AIR 07-306 |
| 14 | | | | |
| 15 | 315 | | | |
| 16 | | 648 | Operation of the 2706-T Building (replaced by NOC 829) | AIR 06-1013 |

Obsolete Applicable Requirements

| 18 | EU | NOC | | Permit |
|----|-----|-----|---|-------------|
| 19 | ID | ID | Project Title | Number |
| 20 | 340 | | | |
| 21 | | 649 | Waste Encapsulation and Storage Facility (WESF) Liquid Low | AIR 06-1014 |
| 22 | | | Level Radioactive Liquid Removal from Tank 100. (Replaced | |
| 23 | | | NOC ID 259)(Replaced by NOC 832) | |
| 24 | 361 | | | |
| 25 | | 687 | Conducting General Laboratory Processes Research Activities in | AIR 06-1042 |
| 26 | | | the 325 Building (Replaced by NOC 807) | |
| 27 | 385 | | | |
| 28 | | 646 | Sodium Residuals Reaction/Removal and other Deactivation Work | AIR 08-1021 |
| 29 | | | Activities at the Fast Flux Test Facility | |
| 30 | | 776 | Sodium Residuals Reaction/Removal and other Deactivation Work | AIR 10-412 |
| 31 | | | Activities at the Fast Flux Test Facility (Replaced by NOC 833) | |
| 32 | 389 | | | |
| 33 | | 655 | Transition of the Plutonium Finishing Plant | AIR 06-1020 |
| 34 | 390 | | | |
| 35 | | 655 | Transition of the Plutonium Finishing Plant | AIR 06-1020 |
| 36 | 393 | | | |
| 37 | | 655 | Transition of the Plutonium Finishing Plant | AIR 06-1020 |
| 38 | 396 | | | |
| 39 | | 646 | Sodium Residuals Reaction/Removal and other Deactivation Work | AIR 08-1021 |
| 40 | | | Activities at the Fast Flux Test Facility | |
| 41 | | 776 | Sodium Residuals Reaction/Removal and other Deactivation Work | AIR 10-412 |
| 42 | | | Activities at the Fast Flux Test Facility (Replaced by NOC 833) | |
| 43 | 397 | | | |
| 44 | | 646 | Sodium Residuals Reaction/Removal and other Deactivation Work | AIR 08-1021 |
| 45 | | | Activities at the Fast Flux Test Facility | |
| 46 | | 776 | Sodium Residuals Reaction/Removal and other Deactivation Work | AIR 10-412 |
| 47 | | | Activities at the Fast Flux Test Facility (Replaced by NOC 833) | |
| 48 | | | | |
| 49 | | | | |

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|----|-----|-----|--|-------------|
| 1 | 398 | | | |
| 2 | | 639 | Construction and Operation of Sodium Storage Facility (Replaced NOC ID 65)(Replaced by NOC 842) | AIR 06-1007 |
| 3 | | | | |
| 4 | 399 | | | |
| 5 | | 646 | Sodium Residuals Reaction/Removal and other Deactivation Work Activities at the Fast Flux Test Facility | AIR 08-1021 |
| 6 | | | | |
| 7 | | 776 | Sodium Residuals Reaction/Removal and other Deactivation Work Activities at the Fast Flux Test Facility (Replaced by NOC 833) | AIR 10-412 |
| 8 | | | | |
| 9 | 412 | | | |
| 10 | | 712 | Life Sciences Laboratory-1 (331 Building) (Replaced by NOC 808) | AIR 08-607 |
| 11 | 423 | | | |
| 12 | | 704 | Operation of the 340 Waste Storage | AIR 06-1058 |
| 13 | 435 | | | |
| 14 | | 652 | Canister Storage Building, Building 212-H (Replaced by NOC 835) | AIR 09-106 |
| 15 | 436 | | | |
| 16 | | 643 | Construction and Operation of the Cold Vacuum Drying Facility (CVDF) (Replaced by NOC 836) | AIR 06-1009 |
| 17 | | | | |
| 18 | 443 | | | |
| 19 | | 684 | 300 Area Excavation Activities (Replaced by NOC 811) | AIR 08-1020 |
| 20 | | | | |
| 21 | | 675 | Operation of the Radiological Counting Facility | AIR 06-1035 |
| 22 | 447 | | | |
| 23 | | 689 | Tank Farm Restoration and Safe Storage (Replaced NOC ID 561) (Replaced by NOC ID 783) | AIR 06-1044 |
| 24 | | | | |
| 25 | | 708 | License to Operate Ventilation of the 241 AY/AZ Tank Farm (Replaced NOC ID 653) (Replaced by NOC ID 782) | AIR 08-908 |
| 26 | | | | |

Obsolete Applicable Requirements

| 28 | EU | NOC | | Permit |
|----|-----------|------------|---|---------------|
| 29 | ID | ID | Project Title | Number |
| 30 | | 711 | Consolidated T Plant Operations (Replaced by NOC 830) | AIR 07-306 |
| 31 | | | | |
| 32 | | 782 | License to Operate Ventilation of the 241 AY/AZ Tank Farm (Replaced NOC ID 708) (Replaced by NOC 840) | AIR 10-1101 |
| 33 | | | | |
| 34 | | 783 | Tank Farm Restoration and Safe Storage (Replaced NOC ID689) (Replaced by NOC 841) | AIR 10-1102 |
| 35 | | | | |
| 36 | | 664 | Portable/Temporary Radionuclide Airborne Emissions Units (PTRAEU) (Replaced by NOC 837) | AIR 06-1025 |
| 37 | | | | |
| 38 | | 670 | Roof Replacement Activities Involving Radioactive Contamination at Facilities on the Central Plateau (Replaced by NOC 838) | AIR 06-1030 |
| 39 | | | | |
| 40 | | 673 | Categorical Tank Farm Facility Entry and Surveillance (Replaced by NOC 839) | AIR 06-1033 |
| 41 | | | | |
| 42 | 455 | | | |
| 43 | | 670 | Roof Replacement Activities Involving Radioactive Contamination at Facilities on the Central Plateau (Replaced by NOC 838) | AIR 06-1030 |
| 44 | | | | |
| 45 | | 700 | Operation of the Transuranic Waste Retrieval Project | AIR 06-1054 |
| 46 | | 708 | License to Operate Ventilation of the 241 AY/AZ Tank Farm | |
| 47 | | 719 | Operation of the Transuranic Waste Retrieval Project | AIR 07-1012 |
| 48 | | | (Replaced by NOC 804) | |

| | | | |
|----|-----|--|-------------|
| 1 | 782 | License to Operate Ventilation of the 241 AY/AZ Tank Farm (Replaced NOC ID 708) (Replaced by NOC 840) | AIR 10-1101 |
| 2 | | | |
| 3 | 795 | License to Operate the Retrieval and Disposal Activities for Boxes 80 and 82 for the TRU Waste Retrieval Project | AIR 10-1022 |
| 4 | | | |
| 5 | 465 | | |
| 6 | 636 | Purgewater Modutanks(Replaced NOC ID 7) (Replaced by NOC ID 747) | AIR 06-1004 |
| 7 | | | |
| 8 | 747 | Demolition of the Purgewater Storage and Treatment Facility Unit #1 (Replaced NOC ID 636) | AIR 09-804 |
| 9 | | | |
| 10 | 472 | | |
| 11 | 662 | Trench 31 and 34: Leachate Collection and Storage Tank (LLBG Mixed Waste Disposal)(Replaced by NOC 834) | AIR 06-1023 |
| 12 | | | |
| 13 | 473 | | |
| 14 | 662 | Trench 31 and 34: Leachate Collection and Storage Tank (LLBG Mixed Waste Disposal)(Replaced by NOC 834) | AIR 06-1023 |
| 15 | | | |
| 16 | 476 | | |
| 17 | 782 | License to Operate Ventilation of the 241 AY/AZ Tank Farm (Replaced NOC ID 708) (Replaced by NOC 840) | AIR 10-1101 |
| 18 | | | |
| 19 | 783 | Tank Farm Restoration and Safe Storage (Replaced NOC ID 689) (Replaced by NOC 841) | AIR 10-1102 |
| 20 | | | |
| 21 | 784 | 244-CR Vault Isolation and Interim Stabilization (Replaced NOC ID 685) (Replaced by NOC ID 853) | AIR 10-1103 |
| 22 | | | |
| 23 | 685 | 244-CR Vault Isolation and Interim Stabilization (Replaced NOC ID 548) (Replaced by NOC ID 784) | AIR 09-902 |
| 24 | | | |
| 25 | 689 | Tank Farm Restoration and Safe Storage (Replaced NOC ID 561) (Replaced by NOC ID 783) | AIR 06-1044 |
| 26 | | | |
| 27 | 702 | Categorical Tank Farm Facility Waste Retrieval and Closure: Phase 1- Site Preparation and System Installation (Replaced by NOC ID 775) | AIR 09-706 |
| 28 | | | |
| 29 | | | |
| 30 | 708 | License to Operate Ventilation of the 241 AY/AZ Tank Farm (Replaced NOC ID 653) (Replaced by NOC ID 782) | AIR 08-908 |
| 31 | | | |

Obsolete Applicable Requirements

| EU ID | NOC ID | Project Title | Permit Number |
|-------|--------|--|---------------|
| 35 | 714 | Installation and Operation of Waste Retrieval Systems in Tanks 241-AZ-101, 241-AZ-102, 241-AY-101, and 241-AY-102. | AIR 06-1064 |
| 36 | | | |
| 37 | 775 | Categorical Tank Farm Facility Waste Retrieval and Closure: Phase 1- Site Preparation and System Installation) (Replaced NOC ID 702 (Replaced by NOC ID 852) | AIR 10-1015 |
| 38 | | | |
| 39 | | | |
| 40 | 647 | Guzzler Excavation and Backfilling Activities in Support of the 200 East Area A Farm Complex (Replaced by 774) | AIR 06-1012 |
| 41 | | | |
| 42 | 658 | Use of the Guzzler™ (Filter Vacuum Truck) Vacuum Excavation System for Radiologically Limited Activities on the Hanford Site. (Replaced by NOC 860) | AIR 08-404 |
| 43 | | | |
| 44 | | | |
| 45 | 670 | Roof Replacement Activities Involving Radioactive Contamination at Facilities on the Central Plateau (Replaced by NOC 838) | AIR 06-1030 |
| 46 | | | |

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|----|-----|---|-------------|
| 1 | 672 | Excavation Activities for the Building of Temporary Construction Facilities and the Main Facilities for the River Protection Project -Waste Treatment Plant (RPP-WTP) | AIR 06-1032 |
| 2 | | | |
| 3 | | | |
| 4 | 548 | 244-CR Vault Isolation and Interim Stabilization (Replaced NOC ID 424) (Replaced by NOC ID 685) | AIR 02-1255 |
| 5 | | | |
| 6 | 486 | | |
| 7 | 792 | Tank Farm Decontamination Trailer West (Replaces NOC 695) (Replaced by NOC 857) | AIR 10-1106 |
| 8 | | | |
| 9 | 793 | Deactivation of 209-E Building (Replaces NOC ID 707)(Replaced by NOC 858) | AIR 10-1021 |
| 10 | | | |
| 11 | 795 | License to Operate the Retrieval and Disposal Activities for Boxes 80 and 82 for the TRU Waste Retrieval Project | AIR 10-1022 |
| 12 | | | |
| 13 | 796 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, 296-S-22 and 296-T-18 (Replaces NOC 697) (Replaced By NOC 859) | AIR 10-1201 |
| 14 | | | |
| 15 | | | |
| 16 | 784 | 244-CR Vault Isolation and Interim Stabilization (Replaced NOC ID 685) (Replaced by NOC ID 853) | AIR 10-1103 |
| 17 | | | |
| 18 | 785 | Tank Waste Remediation System Vadose Zone Characterization (Replaced NOC ID 635)(Replaced by NOC ID 854) | AIR 10-801 |
| 19 | | | |
| 20 | 786 | E-525 Double-Shell Tank (DST) Transfer System Modifications Project (Replaced NOC ID 688) (Replaced by NOC ID 855) | AIR 10-904 |
| 21 | | | |
| 22 | 788 | Installation and Operation of Waste Retrieval Systems in Single -Shell Tank (SST) 241-S-112 (Replaces NOC ID 686) | AIR 10-1202 |
| 23 | | | |
| 24 | 791 | Tank Farm Decontamination Trailer East(Replaces NOC 695) Replaced by NOC 856) | AIR 10-1105 |
| 25 | | | |
| 26 | 719 | Operation of the Transuranic Waste Retrieval Project (Replaced by NOC 804) | AIR 07-1012 |
| 27 | | | |
| 28 | 743 | Decontamination Trailer at the Transuranic Waste Retrieval Project (Replaced by NOC 851) | AIR 09-502 |
| 29 | | | |
| 30 | 775 | Categorical Tank Farm Facility Waste Retrieval and Closure: Phase 1- Site Preparation and System Installation) (Replaced NOC ID 702 (Replaced by NOC ID 852) | AIR 10-1015 |
| 31 | | | |
| 32 | | | |
| 33 | 780 | Categorical Tank Farm Facility Waste Retrieval and Closure: Phase II Waste Retrieval Operations (Replaced NOC ID 703) (Replaced by NOC 816) | AIR 10-1104 |
| 34 | | | |
| 35 | | | |
| 36 | 782 | License to Operate Ventilation of the 241 AY/AZ Tank Farm (Replaced NOC ID 708) (Replaced by NOC 840) | AIR 10-1101 |
| 37 | | | |
| 38 | 783 | Tank Farm Restoration and Safe Storage (Replaced NOC ID 689) (Replaced by NOC 841) | AIR 10-1102 |
| 39 | | | |

Obsolete Applicable Requirements

| EU ID | NOC ID | Project Title | Permit Number |
|-------|--------|---|---------------|
| | 711 | Consolidated T Plant Operations (Replaced by NOC 830) | AIR 07-306 |
| | 713 | Operation of the Integrated Disposal Facility (IDF) (Replaced by NOC 848) | AIR 06-1063 |

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|----|-----|--|-------------|
| 1 | 714 | Installation and Operation of Waste Retrieval Systems in Tanks | AIR 06-1064 |
| 2 | | 241-AZ-101, 241-AZ-102, 241-AY-101, and 241-AY-102. | |
| 3 | 715 | Cleaning Radiologically Contaminated Vehicles (Replaced | AIR 06-1065 |
| 4 | | NOC ID 631) (Replaced By NOC ID 849) | |
| 5 | 718 | Removal of Liquid from Catch Tank 241-ER-311(Replaced | AIR 08-1106 |
| 6 | | by NOC 850) | |
| 7 | 699 | Characterization and Stabilization Activities Involving Radioactive | AIR 06-1053 |
| 8 | | Contamination at Facilities on the Central Plateau | |
| 9 | 700 | Operation of the Transuranic Waste Retrieval Project | AIR 06-1054 |
| 10 | 702 | Categorical Tank Farm Facility Waste Retrieval and Closure: | AIR 09-706 |
| 11 | | Phase 1 Site Preparation and System Installation (Replaced | |
| 12 | | by NOC ID 775) | |
| 13 | 703 | Categorical Tank Farm Facility Waste Retrieval and Closure: | AIR 09-704 |
| 14 | | Phase II Waste Retrieval Operations (Replaced NOC ID 587) | |
| 15 | 705 | Supplemental Treatment Test and Demonstration Facility | AIR 06-1059 |
| 16 | 708 | License to Operate Ventilation of the 241 AY/AZ Tank Farm | AIR 08-908 |
| 17 | | (Replaced NOC ID 653) (Replaced by NOC ID 782) | |
| 18 | 692 | 241-AN Tank Farm Installation and Operation of a New Ventilation | AIR 06-1046 |
| 19 | | System (Replaced by NOC 845) | |
| 20 | 693 | 241-AW Tank Farm Installation and Operation of a New | AIR 06-1047 |
| 21 | | Ventilation System (Replaced by NOC 846) | |
| 22 | 694 | 241-S-102 Installation and Operation of Waste Retrieval Systems | AIR 09-708 |
| 23 | | (Replaced NOC ID 567) | |
| 24 | 695 | Tank Farm Decontamination Trailers (Replaced by NOC 791 | AIR 06-1049 |
| 25 | | and 792) | |
| 26 | 697 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 08-1107 |
| 27 | | 296-S-22 and 296-T-18(Replaced by 796) | |
| 28 | 698 | 241-C-200 Series Tanks Retrieval Liquid Pumping and Enhanced | AIR 06-1052 |
| 29 | 683 | Sluicing on Tank 241-C-106 (Replaced NOC ID 540) | AIR 06-1038 |
| 30 | | (Replaced by NOC ID 790) | |
| 31 | 685 | 244-CR Vault Isolation and Interim Stabilization | AIR 09-902 |
| 32 | | (Replaced NOC ID 548) (Replaced by NOC ID 784) | |
| 33 | 686 | Installation and Operation of Waste Retrieval Systems in Single | AIR 08-1103 |
| 34 | | -Shell Tank (SST) 241-S-112 (Replaced NOC ID 550) | |
| 35 | | (Replaced by NOC ID 788) | |
| 36 | 688 | E-525 Double-Shell Tank (DST) Transfer System Modifications | AIR 08-1104 |
| 37 | | Project (Replaced NOC ID 555) (Replaced by NOC ID 786) | |
| 38 | 689 | Tank Farm Restoration and Safe Storage (Replaced NOC ID 561) | AIR 06-1044 |
| 39 | | (Replaced by NOC ID 783) | |
| 40 | 690 | Operation of the Liquid Effluent Retention Facility and the 200 Area | AIR 06-1045 |
| 41 | | Effluent Treatment Facility (Replaced NOC ID 562) | |
| 42 | | (Replaced by NOC 822) | |
| 43 | 670 | Roof Replacement Activities Involving Radioactive Contamination | AIR 06-1030 |
| 44 | | at Facilities on the Central Plateau (Replaced by NOC 838) | |
| 45 | | | |
| 46 | | | |

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| 1 | 672 | Excavation Activities for the Building of Temporary Construction Facilities and the Main Facilities for the River Protection Project-Waste Treatment Plant (RPP-WTP) | AIR 06-1032 |
| 2 | | | |
| 3 | | | |
| 4 | 673 | Categorical Tank Farm Facility Entry and Surveillance | AIR 06-1033 |
| 5 | | (Replaced by NOC 839) | |
| 6 | <u>Obsolete Applicable Requirements</u> | | |
| 7 | EU | NOC | Permit |
| 8 | ID | ID | Number |
| 9 | | 674 | Vapor Sampling of Miscellaneous Underground Units |
| 10 | | | (Replaced by NOC 483) |
| 11 | | 678 | 200/600 Areas Facilities Support Decontamination Trailer |
| 12 | | | (Intermittent powered exhaust)(Replaced by NOC 844) |
| 13 | | 635 | Tank Waste Remediation System Vadose Zone Characterization |
| 14 | | | (Replaced NOC ID 5) (Replaced by NOC ID 785) |
| 15 | | 638 | Construction and operation of the Waste Receiving and |
| 16 | | | Processing (WRAP) Facility (Replaced NOC ID 23) |
| 17 | | 648 | Operation of the 2706-T Building (replaced by NOC 829) |
| 18 | | 655 | Transition of the Plutonium Finishing Plant |
| 19 | | 683 | Liquid Pumping and Enhanced Sluicing on Tank 241-C-106 |
| 20 | | | (Replaced NOC ID 540) (Replaced by NOC ID 790) |
| 21 | | 685 | 244-CR Vault Isolation and Interim Stabilization |
| 22 | | | (Replaced NOC ID 548) (Replaced by NOC ID 784) |
| 23 | | 703 | Categorical Tank Farm Facility Waste Retrieval and Closure: |
| 24 | | | Phase II Waste Retrieval Operations (Replaced NOC ID 587) |
| 25 | | 780 | Categorical Tank Farm Facility Waste Retrieval and Closure: |
| 26 | | | Phase II Waste Retrieval Operations (Replaced NOC ID 703) |
| 27 | | | (Replaced by NOC 816) |
| 28 | | 784 | 244-CR Vault Isolation and Interim Stabilization |
| 29 | | | (Replaced NOC ID 685) (Replaced by NOC ID 853) |
| 30 | 503 | | |
| 31 | | 655 | Transition of the Plutonium Finishing Plant |
| 32 | 504 | | |
| 33 | | 669 | Use of Portable Tanks and Revised Source Term Description at |
| 34 | | | Waste Sampling and Characterization Facility (WSCF) |
| 35 | | | (Replaced by NOC 820) |
| 36 | 539 | | |
| 37 | | 635 | Tank Waste Remediation System Vadose Zone Characterization |
| 38 | | | (Replaced NOC ID 5) (Replaced by NOC ID 785) |
| 39 | | 785 | Tank Waste Remediation System Vadose Zone Characterization |
| 40 | | | (Replaced NOC ID 635)(Replaced by NOC ID 854) |
| 41 | 541 | | |
| 42 | | 785 | Tank Waste Remediation System Vadose Zone Characterization |
| 43 | | | (Replaced NOC ID 635)(Replaced by NOC ID 854) |
| 44 | | 635 | Tank Waste Remediation System Vadose Zone Characterization |
| 45 | | | (Replaced NOC ID 5) (Replaced by NOC ID 785) |

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|----|-----|-----|--|-------------|
| 1 | | 539 | Installation of Breather Filter on Tank 241-C-106 | AIR 03-203 |
| 2 | 713 | | | |
| 3 | | 685 | 244-CR Vault Isolation and Interim Stabilization | AIR 09-902 |
| 4 | | | (Replaced NOC ID 548) (Replaced by NOC ID 784) | |
| 5 | | 784 | 244-CR Vault Isolation and Interim Stabilization | AIR 10-1103 |
| 6 | | | (Replaced NOC ID 685) (Replaced by NOC ID 853) | |
| 7 | 714 | | | |
| 8 | | 685 | 244-CR Vault Isolation and Interim Stabilization | AIR 09-902 |
| 9 | | | (Replaced NOC ID 548) (Replaced by NOC ID 784) | |
| 10 | | 784 | 244-CR Vault Isolation and Interim Stabilization | AIR 10-1103 |
| 11 | | | (Replaced NOC ID 685) (Replaced by NOC ID 853) | |
| 12 | 735 | | | |
| 13 | | 706 | Operation of New Ventilation Systems in AN and AW Tank Farms | AIR 06-1060 |
| 14 | | | NOC 706 replaced NOC 593. NOC 802 replaced NOC 706. | |
| 15 | | 802 | Operation of New Ventilation Systems in AN and AW Tank Farms | AIR 11-404 |
| 16 | | | (Replaced NOC ID 706) (Replaced by NOC ID 809) | |

Obsolete Applicable Requirements

| 18 | EU | NOC | | Permit |
|----|-----------|------------|---|---------------|
| 19 | ID | ID | Project Title | Number |
| 20 | 736 | | | |
| 21 | | 706 | Operation of New Ventilation Systems in AN and AW Tank Farms. | AIR 06-1060 |
| 22 | | | NOC 706 replaced NOC 593. NOC 802 replaced NOC 706 | |
| 23 | | 802 | Operation of New Ventilation Systems in AN and AW Tank Farms | AIR 11-404 |
| 24 | | | (Replaced NOC ID 706) (Replaced by NOC ID 809). | |
| 25 | 738 | | | |
| 26 | | 697 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 08-1107 |
| 27 | | | 296-S-22 and 296-T-18(Replaced by 796) | |
| 28 | | 796 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 10-1201 |
| 29 | | | 296-S-22 and 296-T-18 (Replaces NOC 697) | |
| 30 | | | (Replaced By NOC 859) | |
| 31 | 740 | | | |
| 32 | | 697 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 08-1107 |
| 33 | | | 296-S-22 and 296-T-18(Replaced by 796) | |
| 34 | | 796 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 10-1201 |
| 35 | | | 296-S-22 and 296-T-18 (Replaces NOC 697) | |
| 36 | | | (Replaced By NOC 859) | |
| 37 | 742 | | | |
| 38 | | 697 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 08-1107 |
| 39 | | | 296-S-22 and 296-T-18(Replaced by 796) | |
| 40 | | 796 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 10-1201 |
| 41 | | | 296-S-22 and 296-T-18 (Replaces NOC 697) | |
| 42 | | | (Replaced By NOC 859) | |
| 43 | 744 | | | |
| 44 | | 697 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 08-1107 |
| 45 | | | 296-S-22 and 296-T-18(Replaced by 796) | |
| 46 | | 796 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 10-1201 |
| 47 | | | 296-S-22 and 296-T-18 (Replaces NOC 697) | |
| 48 | | | (Replaced By NOC 859) | |

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|----|-----|-----|---|-------------|
| 1 | 749 | | | |
| 2 | | 698 | 241-C-200 Series Tanks Retrieval | AIR 06-1052 |
| 3 | | 703 | Categorical Tank Farm Facility Waste Retrieval and Closure: Phase II Waste Retrieval Operations (Replaced NOC ID 587) | AIR 09-704 |
| 4 | | | | |
| 5 | | 780 | Categorical Tank Farm Facility Waste Retrieval and Closure: Phase II Waste Retrieval Operations (Replaced NOC ID 703) (Replaced by NOC 816) | AIR 10-1104 |
| 6 | | | | |
| 7 | | | | |
| 8 | 751 | | | |
| 9 | | 688 | E-525 Double-Shell Tank (DST) Transfer System Modifications Project (Replaced NOC ID 555) (Replaced by NOC ID 786) | AIR 08-1104 |
| 10 | | | | |
| 11 | | 786 | E-525 Double-Shell Tank (DST) Transfer System Modifications Project (Replaced NOC ID 688) (Replaced by NOC ID 855) | AIR 10-904 |
| 12 | | | | |
| 13 | 755 | | | |
| 14 | | 700 | Operation of the Transuranic Waste Retrieval Project | AIR 06-1054 |
| 15 | | 719 | Operation of the Transuranic Waste Retrieval Project (Replaced by NOC 804) | AIR 07-1012 |
| 16 | | | | |
| 17 | 756 | | | |
| 18 | | 700 | Operation of the Transuranic Waste Retrieval Project | AIR 06-1054 |
| 19 | | 719 | Operation of the Transuranic Waste Retrieval Project (Replaced by NOC 804) | AIR 07-1012 |
| 20 | | | | |
| 21 | 855 | | | |
| 22 | | 706 | Operation of New Ventilation Systems in AN and AW Tank Farms NOC 706 replaced NOC 593. NOC 802 replaced NOC 706. | AIR 06-1060 |
| 23 | | | | |

Obsolete Applicable Requirements

| 25 | EU | NOC | | Permit |
|----|-----------|------------|---|---------------|
| 26 | ID | ID | Project Title | Number |
| 27 | | 802 | Operation of New Ventilation Systems in AN and AW Tank Farms. (Replaced NOC ID 706)(Replaced by NOC ID 809) | AIR 11-404 |
| 28 | | | | |
| 29 | 856 | | | |
| 30 | | 706 | Operation of New Ventilation Systems in AN and AW Tank Farms. NOC 706 replaced NOC 593. NOC 802 replaced NOC 706. | AIR 06-1060 |
| 31 | | | | |
| 32 | | 802 | Operation of New Ventilation Systems in AN and AW Tank Farms (Replaced NOC ID 706)(Replaced by NOC ID 809) | AIR 11-404 |
| 33 | | | | |
| 34 | 874 | | | |
| 35 | | 655 | Transition of the Plutonium Finishing Plant | AIR 06-1020 |
| 36 | | 709 | Deactivation of the Plutonium Finishing Plant Complex (Replaced NOC ID 608) | AIR 06-664 |
| 37 | | | | |
| 38 | 878 | | | |
| 39 | | 590 | Supplemental Treatment Test and Demonstration Facility | AIR 04-1001 |
| 40 | | 705 | Supplemental Treatment Test and Demonstration Facility | AIR 06-1059 |
| 41 | 885 | | | |
| 42 | | 703 | Categorical Tank Farm Facility Waste Retrieval and Closure: Phase II Waste Retrieval Operations (Replaced NOC ID 587) | AIR 09-704 |
| 43 | | | | |
| 44 | | 780 | Categorical Tank Farm Facility Waste Retrieval and Closure: Phase II Waste Retrieval Operations (Replaced NOC ID 703) (Replaced by NOC 816) | AIR 10-1104 |
| 45 | | | | |
| 46 | | | | |
| 47 | 886 | | | |
| 48 | | 703 | Categorical Tank Farm Facility Waste Retrieval and Closure: | AIR 09-704 |

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| 1 | | Phase II Waste Retrieval Operations (Replaced NOC ID 587) | |
| 2 | 780 | Categorical Tank Farm Facility Waste Retrieval and Closure: | AIR 10-1104 |
| 3 | | Phase II Waste Retrieval Operations (Replaced NOC ID 703) | |
| 4 | | (Replaced by NOC 816) | |
| 5 | 891 | | |
| 6 | 742 | Waste Repackaging Outdoors at Cold Vacuum Drying Facility | AIR 08-1019 |
| 7 | 894 | | |
| 8 | 659 | Installation and Operation of Breather Filter on Tank 241-UX-302A, | AIR 06-1022 |
| 9 | | 241-AZ-154, and 241-U-301B | |
| 10 | 739 | Installation and Operation of Breather Filters on Miscellaneous | AIR 08-1014 |
| 11 | | Tanks. (Replaced by NOC ID 865) | |
| 12 | 910 | | |
| 13 | 718 | Removal of Liquid from Catch Tank 241-ER311 | AIR 08-1106 |
| 14 | | (Replaced by NOC 850) | |
| 15 | 912 | | |
| 16 | 697 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 08-1107 |
| 17 | | 296-S-22 and 296-T-18(Replaced by 796) | |
| 18 | 796 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 10-1201 |
| 19 | | 296-S-22 and 296-T-18 (Replaces NOC 697) | |
| 20 | | (Replaced By NOC 859) | |
| 21 | 922 | | |
| 22 | 697 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 08-1107 |
| 23 | | 296-S-22 and 296-T-18(Replaced by 796) | |
| 24 | 796 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 10-1201 |
| 25 | | 296-S-22 and 296-T-18 (Replaces NOC 697) | |
| 26 | | (Replaced By NOC 859) | |
| 27 | 959 | | |
| 28 | 697 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 08-1107 |
| 29 | | 296-S-22 and 296-T-18(Replaced by 796) | |
| 30 | 796 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 10-1201 |
| 31 | | 296-S-22 and 296-T-18 (Replaces NOC 697) | |
| 32 | | (Replaced By NOC 859) | |

Obsolete Applicable Requirements

| 34 | EU | NOC | | Permit |
|----|-----------|------------|---|---------------|
| 35 | ID | ID | Project Title | Number |
| 36 | 969 | | | |
| 37 | | 697 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 08-1107 |
| 38 | | | 296-S-22 and 296-T-18(Replaced by 796) | |
| 39 | | 796 | Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, | AIR 10-1201 |
| 40 | | | 296-S-22 and 296-T-18 (Replaces NOC 697) | |
| 41 | | | (Replaced By NOC 859) | |
| 42 | 1128 | | | |
| 43 | | 646 | Sodium Residuals Reaction/Removal and other Deactivation Work | AIR 08-1021 |
| 44 | | | Activities at the Fast Flux Test Facility | |
| 45 | | 776 | Sodium Residuals Reaction/Removal and other Deactivation Work | AIR 10-412 |
| 46 | | | Activities at the Fast Flux Test Facility (Replaced by NOC 833) | |
| 47 | | | | |
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| 1 | 1129 | | |
| 2 | 659 | Installation and Operation of Breather Filter on Tank 241-UX-302A, | AIR 06-1022 |
| 3 | | 241-AZ-154, and 241-U-301B | |
| 4 | 739 | Installation and Operation of Breather Filters on Miscellaneous | AIR 08-1014 |
| 5 | | Tanks. (Replaced by NOC ID 865) | |
| 6 | 1130 | | |
| 7 | 659 | Installation and Operation of Breather Filter on Tank 241-UX-302A, | AIR 06-1022 |
| 8 | | 241-AZ-154, and 241-U-301B | |
| 9 | 739 | Installation and Operation of Breather Filters on Miscellaneous | AIR 08-1014 |
| 10 | | Tanks. (Replaced by NOC ID 865) | |
| 11 | 1176 | | |
| 12 | 646 | Sodium Residuals Reaction/Removal and other Deactivation Work | AIR 08-1021 |
| 13 | | Activities at the Fast Flux Test Facility | |
| 14 | 776 | Sodium Residuals Reaction/Removal and other Deactivation Work | AIR 10-412 |
| 15 | | Activities at the Fast Flux Test Facility (Replaced by NOC 833) | |
| 16 | 1181 | | |
| 17 | 719 | Operation of the Transuranic Waste Retrieval Project | AIR 07-1012 |
| 18 | | (Replaced by NOC 804) | |
| 19 | 1184 | | |
| 20 | 676 | Approval to Construct the Solidification Treatment Unit (STU) | AIR 07-402 |
| 21 | 1185 | | |
| 22 | 657 | Operation of the 361 Building in Testing Equipment Operability | AIR 08-403 |
| 23 | | Utilizing Radioxenon and Radon (Replaced by NOC 862) | |
| 24 | 1186 | | |
| 25 | 678 | 200/600 Areas Facilities Support Decontamination Trailer | AIR 07-1102 |
| 26 | | (Intermittent powered exhaust)(Replaced by NOC 844) | |
| 27 | 1187 | | |
| 28 | 678 | 200/600 Areas Facilities Support Decontamination Trailer | AIR 07-1102 |
| 29 | | (Intermittent powered exhaust)(Replaced by NOC 844) | |
| 30 | 1232 | | |
| 31 | 739 | Installation and Operation of Breather Filters on Miscellaneous | AIR 08-1014 |
| 32 | | Tanks. (Replaced by NOC ID 865) | |
| 33 | 1243 | | |
| 34 | 743 | Decontamination Trailer at the Transuranic Waste Retrieval | AIR 09-502 |
| 35 | | Project (Replaced by NOC 851) | |
| 36 | 1244 | | |
| 37 | 743 | Decontamination Trailer at the Transuranic Waste Retrieval | AIR 09-502 |
| 38 | | Project (Replaced by NOC 851) | |
| 39 | 1289 | | |
| 40 | 791 | Tank Farm Decontamination Trailer East(Replaces NOC 695) | AIR 10-1105 |
| 41 | | (Replaced by NOC 856) | |
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26Obsolete Applicable Requirements

| EU ID | NOC ID | Project Title | Permit Number |
|--------------|---------------|---|----------------------|
| 1290 | 792 | Tank Farm Decontamination Trailer West (Replaces NOC 695) (Replaced by NOC 857) | AIR 10-1106 |
| 1291 | 791 | Tank Farm Decontamination Trailer East (Replaces NOC 695) (Replaced by NOC 856) | AIR 10-1105 |
| 1292 | 792 | Tank Farm Decontamination Trailer West (Replaces NOC 695) (Replaced by NOC 857) | AIR 10-1106 |
| 1293 | 780 | Categorical Tank Farm Facility Waste Retrieval and Closure: Phase II Waste Retrieval Operations (Replaced NOC ID 703) (Replaced by NOC 816) | AIR 10-1104 |
| 1294 | 794 | 242-A Evaporator Building Exhauster K-1 Upgrade (Replaced by NOC 864) | AIR 10-1204 |
| 1322 | 795 | License to Operate the Retrieval and Disposal Activities for Boxes 80 and 82 for the TRU Waste Retrieval Project | AIR 10-1022 |

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2**Table of Changes from FF-01 2-23-12**

| Building | Type of Change | Affected Emission Unit | NOC ID/Title | Description of Changes | Date Changed | FF-01 Page Changes | AIR Letter # Authorizing Change |
|-----------------------------|---|-------------------------------|---------------------|---|---------------------|--|---|
| Signature page of the FF-01 | Corrected the titles of RCW 70.98, RCW 70.94 and WAC 246-247 to the correct titles. This was done in response to public comment received through the Dept. of Ecology | None | | Corrected the titles of RCW 70.98, RCW 70.94 and WAC 246-247 to the correct titles. This was done in response to public comment received through the Dept. of Ecology | 8/30/2013 | Page 1 | |
| Hanford Site | Enclosure 4 Air Monitoring Stations Updated | Enclosure 4 of the FF-01 | | Ambient Air Monitors N550, N551, N577 removed. N910 E renamed with the designation N910 S (for south) instead of N910 E (for East) to reflect the relocation. | 8/30/2013 | Removed enclosure 4, pages 1-3. Replaced with enclosure 4, pages 1-3 footer dated 08/30/2013 | AIR 12-1002, AIR 13-202 and e-mail # 3486 |
| WESF | Replacement of NOC | EU 340 | NOC 649 | Reinserted EU 340, During FF-01 renewal NOC 649 was incorrectly removed. | 8/30/2013 | Removed EU 340, page 1. Replaced with EU 340, pages 1-3 footer dated 08/30/2013. | AIR 12-1204 |
| 331 Building | Removal of EU | EU 1180 | NOC 787 | Removed EU 1180. EU closed and no longer an emission source. | 8/30/2013 | Removed EU 1180, pages 1-24. | AIR 12-505 |
| AY/AZ Tank Farms | Removal of EU | EU 1330 | NOC 819, 832 | Removed EU 1330. EU closed and not a source of emissions. | 8/30/2013 | Removed EU 1330, pages 1-2. | AIR 13-516 |
| AY/AZ Tank Farms | Removal of EU | EU 1331 | NOC 819, 832 | Removed EU 1331. EU closed and not a source of emissions. | 8/30/2013 | Removed EU 1331, pages 1-3. | AIR 13-516 |

| Building | Type of Change | Affected Emission Unit | NOC ID/Title | Description of Changes | Date Changed | FF-01 Page Changes | AIR Letter # Authorizing Change |
|----------------------------|-------------------------------|------------------------|--------------------------------|---|--------------|---|---------------------------------|
| 242-A Evaporator | Removal of EU | EU 1294 | NOC 864 | Removed EU 1294. EU closed, remaining diffuse/fugitive emissions accounted for in EU 486. | 8/30/2013 | Removed EU 1294, pages 1-3. | AIR 13-607 |
| 242-A Evaporator | Removal of EU | EU 141 | | Removed EU 141. EU closed, remaining diffuse/fugitive emissions accounted for in EU 486. | 8/30/2013 | Removed EU 141, page 1. | AIR 13-607 |
| ALARACT | Revised ALARACT | ALARACT Revision | | Removed ALARACT 02.1 replaced with ALARACT 02.2 | 8/30/2013 | Removed ALARACT 02.1, pages 1-3. Replaced with ALARACT 02.2 pages 1-2, footer dated 08/30/2013. | AIR 13-605 |
| 241 AY/AZ Tank Farms | Removed NOC 840 added NOC 901 | EU 93 | NOC 840 removed, NOC 901 added | NOC 840 replaced with NOC 901 | 8/30/2013 | Removed EU 93, pages 1-7. Replaced EU 93 pages 1-8, footer dated 08/30/2013. | AIR 13-707 |
| 296-A-19 Annulus Exhauster | Modification of EU | EU 218 | NOC 877 | Modification of EU 218 from a minor emission source to a major emission source. | 8/30/2013 | Removed EU 218, page 1. Replaced with EU 218, pages 1-3 footer dated 8-30-2013. | AIR 13-401 |
| 222-S Laboratory | Replacement of NOC | EU 254 | NOC 881 | Removed NOC 831, replaced with NOC 881. | 8/30/2013 | Removed EU 254, pages 1-3. Replaced EU 254 with pages 1-4, footer dated 08/30/2013. | AIR 13-306 |

| Building | Type of Change | Affected Emission Unit | NOC ID/Title | Description of Changes | Date Changed | FF-01 Page Changes | AIR Letter # Authorizing Change |
|--|--------------------------------------|------------------------|---|---|--------------|---|---|
| 200 Area Diffuse and Fugitive | Removal of NOCs and Addition of NOCs | EU 486 | Removed NOC 832, 840, 855, 858, 859. Added NOC 863, 879, 898. | Removed NOC 832, 855, 858, 859. Added NOC 863, 879 & 898. | 8/30/2013 | Removed EU 486, pages 1-100. Replaced with EU 486, pages 1-100 footer dated 08/30/2013. | AIR 13-607, AIR 13-807, AIR-12-1001, AIR-13-807 |
| 209-E Criticality Lab | Removal of EU | EU 210 | NOC 858 | Removed EU 210. EU transitioned to CERCLA regulation. | 8/30/2013 | Removed EU 210, pages 1-5 | AIR 12-510 |
| Decon Trailer (collection tank vents) | Removal of EU | EU 1187 | NOC 844 | Removed EU 1187. EU has been closed and is no longer a source of emissions. | 8/30/2013 | Removed EU 1187, Pages 1-2 | AIR 13-802 |
| Decon Trailer (intermittent powered Exhaust) | Removal of EU | EU 1186 | NOC 844 | Removed EU 1186. EU has been closed and is no longer a source of emissions. | 8/30/2013 | Removed EU 1186, Pages 1-2 | AIR 13-802 |
| 241-U-301B Breather Filter | Replacement of NOC | EU 1129 | NOC 897 | Removed NOC 865, Replaced with NOC 897 | 8/30/2013 | Removed EU 1129, pages 1-2. Replaced EU 1129 with pages 1-2 footer dated 08/30/2013. | AIR 13-820 |
| 241-AZ-154 Breather Filter | Replacement of NOC | EU 1130 | NOC 896 | Removed NOC 865, Replaced with NOC 896 | 8/30/2013 | Removed EU 1130, pages 1-2. Replaced EU 1130 with pages 1-2 footer dated 08/30/2013. | AIR 13-819 |
| 241-UX-302A Breather Filter | Replacement of NOC | EU 894 | NOC 895 | Removed NOC 865, Replaced with NOC 895 | 8/30/2013 | Removed EU 894, pages 1-2. Replaced EU 894 with pages 1-2 footer dated 08/30/2013. | AIR 13-818 |

| Building | Type of Change | Affected Emission Unit | NOC ID/Title | Description of Changes | Date Changed | FF-01 Page Changes | AIR Letter # Authorizing Change |
|--------------------------------|--------------------|------------------------|--------------|--|--------------|--|---------------------------------|
| 240-S-302 Breather Filter | Replacement of NOC | EU 1232 | NOC 894 | Removed NOC 865, Replaced with NOC 894 | 8/30/2013 | Removed EU 1232, pages 1-2. Replaced EU 1232 with pages 1-2 footer dated 08/30/2013. | AIR 13-817 |
| 244-TX Annulus Breather Filter | Replacement of NOC | EU 969 | NOC 889 | Removed NOC 859, Replaced with NOC 889 | 8/30/2013 | Removed EU 969, pages 1-2. Replaced EU 969 with pages 1-2 footer dated 08/30/2013. | AIR 13-816 |
| 244-S Annulus Breather Filter | Replacement of NOC | EU 959 | NOC 888 | Removed NOC 859, Replaced with NOC 888 | 8/30/2013 | Removed EU 959, pages 1-2. Replaced EU 959 with pages 1-2 footer dated 08/30/2013. | AIR 13-815 |
| 244-BX Annulus Breather Filter | Replacement of NOC | EU 922 | NOC 887 | Removed NOC 859, Replaced with NOC 887 | 8/30/2013 | Removed EU 922, pages 1-3. Replaced EU 922 with pages 1-2 footer dated 08/30/2013. | AIR 13-814 |
| 244-A Annulus Breather Filter | Replacement of NOC | EU 912 | NOC 886 | Removed NOC 859, Replaced with NOC 886 | 8/30/2013 | Removed EU 912, pages 1-4. Replaced EU 912 with pages 1-2 footer dated 08/30/2013. | AIR 13-813 |
| 244-TX Primary Breather Filter | Replacement of NOC | EU 744 | NOC 885 | Removed NOC 859, Replaced with NOC 885 | 8/30/2013 | Removed EU 744 pages 1-3. Replaced EU 744 with pages 1-2 footer dated 08/30/2013. | AIR 13-812 |

| Building | Type of Change | Affected Emission Unit | NOC ID/Title | Description of Changes | Date Changed | FF-01 Page Changes | AIR Letter # Authorizing Change |
|---|----------------------------------|------------------------|--------------|--|--------------|--|---------------------------------|
| 244-S Primary Breather Filter | Replacement of NOC | EU742 | NOC 884 | Removed NOC 859, Replaced with NOC 884 | 8/30/2013 | Removed EU 742 pages 1-4. Replaced EU 742 pages 1-2 footer dated 8/30/2013. | AIR 13-811 |
| 244-BX Primary Breather Filter | Replacement of NOC | EU 740 | NOC 883 | Removed NOC 859, Replaced with NOC 883 | 8/30/2013 | Removed EU 740, pages 1-4. Replaced EU 740 with pages 1-2 footer dated 08/30/2013. | AIR 13-810 |
| 244-A Primary Breather Filter | Replacement of NOC | EU 738 | NOC 882 | Removed NOC 859, Replaced with NOC 882 | 8/30/2013 | Removed EU 738 pages 1-4. Replaced EU 1129 with pages 1-2 footer dated 8/30/2013. | AIR 13-809 |
| Cold Vacuum Drying Facility | Emission Unit Removed from FF-01 | EU 436 | NOC 836 | Emission unit has been removed from FF-01. Emission unit has been transitioned to CERCLA regulation. | 9/18/2013 | Removed EU 436 pages 1-6. | AIR 13-905 |
| Hanford Sitewide type-1, type-2, type-3 | Removed NOC 840 | EU 447 | NOC 840 | Removed NOC 840. NOC 840 contained construction activities associated with EU 93 and are no longer needed. | 10/2/2013 | Removed EU 447, pages 1-14. Replaced with EU 447, pages 1-12, footer dated 10/02/2013. | AIR 13-707 |
| Hanford Site W-PORTEX 007 | Removed NOC 840 | EU 455 | NOC 840 | Removed NOC 840. NOC 840 contained construction activities associated with EU 93 and are no longer needed. | 10/2/2013 | Removed EU 455, pages 1-13. Replaced with EU 455, pages 1-9 footer dated 10-2-2013 | AIR 13-707 |

| Building | Type of Change | Affected Emission Unit | NOC ID/Title | Description of Changes | Date Changed | FF-01 Page Changes | AIR Letter # Authorizing Change |
|------------------------------------|--------------------|------------------------|--------------|--|--------------|---|---------------------------------|
| Hanford Sitewide Guzzler-001 | Removed NOC 840 | EU 476 | NOC 840 | Removed NOC 840. NOC 840 contained construction activities associated with EU 93 and are no longer needed. | 10/2/2013 | Removed EU 476, pages 1-25. Replaced with EU 476, pages 1-25 footer dated 10-2-2013 | AIR 13-707 |
| 241-AZ Tank Farm | Replacement of NOC | EU 751 | NOC 863 | Removed NOC 858. Replaced with NOC 863. | 10/2/2013 | Removed EU 751, pages 1-5. Replaced with EU 751, pages 1-3 footer dated 10/02/2013 | AIR 12-1001 |
| SX Farm Pore Water Extraction Test | New Emission Unit | EU 1391 | NOC 904 | New NOC 904 | 10/2/2013 | Added EU 1391, pages 1-2 footer dated 10/02/2013 | AIR 13-1001 |

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2 **7.0 CERCLA APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS**

3 **CERCLA Substantive Requirements -- Applicable or Relevant and Appropriate**
 4 **Requirements**

5 [WAC 246-247-040]

6 Regulations promulgated under statutory authority other than the FCAA (e.g., RCRA and CERCLA)
 7 are not Title V applicable requirements and are not included in the license. In addition, actions taken
 8 pursuant to CERCLA are exempt from permitting. However, the actions taken must meet the
 9 substantive requirements of applicable or relevant and appropriate requirements (ARARs) (e.g., WAC
 10 246-247-040, ALARACT). Characterization and cleanup activities are being conducted at Hanford
 11 pursuant to CERCLA. The characterization and cleanup activities are applying best available
 12 radionuclide control technology to control emissions, and emissions are being monitored to ensure that
 13 the offsite dose to the maximally exposed individual is below the applicable standards. The CERCLA
 14 decision documents, such as an Action Memo, identify ARARs.

15 Hanford is required to report all radioactive air emissions (including those resulting from CERCLA
 16 actions) to demonstrate compliance with all dose standards (WAC-246-247 and 40CFR61).