

Effective Date: 8/01/2016  
Expiration Date: 3/31/2018

Hanford Air Operating Permit  
Permit No. 00-05-006  
Renewal 2, Revision B

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**STATEMENT OF BASIS  
HANFORD SITE AIR OPERATING PERMIT  
PERMIT NUMBER 00-05-006  
RENEWAL 2, REVISION B**

**ATTACHMENT 2  
DEPARTMENT OF HEALTH LICENSE**

Effective Date: 8/01/2016  
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**STATEMENT OF BASIS  
HANFORD SITE AIR OPERATING PERMIT  
PERMIT NUMBER 00-05-006  
RENEWAL 2, REVISION B**

**ATTACHMENT 2  
DEPARTMENT OF HEALTH LICENSE**

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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 best available radiological control technology (BARCT) per  
11 WAC 246-247-040(3).

12 All existing emission units and insignificant modifications shall utilize as low as reasonable achievable  
13 control technology (ALARACT). [WAC 246-247-040(4)]

14

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

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

22 WAC 246-247-075(11) requires the licensee to address accidental releases when planning for any new  
23 construction or significant modification of the emission unit if the probability of occurrence during the  
24 expected life of the emission unit is greater than one percent. Refer to tables 1.1, 1.2, 1.3 and section  
25 2.1 of the license.

26 **2.1 Requirements for Diffuse or Fugitive Sources in Table 2.1**

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

34 Quality Assurance and Analysis

35 All required ambient air samples collected and analyzed must be compatible with the quality assurance  
36 requirements of national standards such as NQA-1, EPA QA/R-5, and Method 114 as applicable. Near-  
37 facility ambient air samples from individual stations must be composited at a frequency no greater than  
38 6 months.

39 Modifications to the Diffuse and Fugitive Environmental Monitoring

40 Prior to making modifications (i.e., moving, or removing air sample locations, or changing the  
41 sampling period) to the accepted periodic confirmatory measurement (for minor diffuse and fugitive

sources) and continuous measurement (for major diffuse and fugitive sources) the Department of Health, Radioactive Air Emissions Section shall approve a written request for the modifications. The request for modification may take the form of an email or formal letter. Analysis of other media samples will be conducted at labs with the appropriate quality assurance programs in-place.

## 2.2 Compliance Assurance Monitoring for Legacy Sources Discovered on Site

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

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

## 3.0 EMISSION UNIT IDENTIFICATION DESCRIPTIONS USED IN ATTACHMENT 2

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

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

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

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

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

**Emission Unit ID: 393**.....*Health's database tracking number*  
**200W P-291Z001** .....*The AEI number*  
**291-Z-1** .....*The regulatory ID*  
**Plutonium Finishing Plant (Z Plant)**.....*The associated facility/farm*

AEI number representation:

**200W**      Operational area code  
**P**            Process emission point  
**291Z**      Building number  
**001**        Emission point identifier

1    **4.0       ALARACT DEMONSTRATIONS**

2    The ALARACT demonstrations contained in enclosure 3 of the FF-01 describe the approved methods  
3    for ALARACT compliance set forth in section 2.2 of Attachment 2 for the approved routine activities.  
4    If an emission unit license references an older ALARACT revision (1, 2, etc.) then the most up to date  
5    revision must be used (01.1, 02.1, etc.). The revision number is designated by the number following  
6    the decimal place.

7

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)

<b>EU ID</b>	<b>Stack Name</b>
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

<b>EU ID</b>	<b>Stack Name</b>
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

<b>EU ID</b>	<b>Stack Name</b>
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

1 **6.0 OBSOLETE APPLICABLE REQUIREMENTS**

2 Obsolete Applicable Requirements

3	<b>EU</b>	<b>NOC</b>		<b>Permit</b>
4	<b>ID</b>	<b>ID</b>	<b>Project Title</b>	<b>Number</b>
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)	
47		714	Installation and Operation of Waste Retrieval Systems in Tanks	AIR 06-1064

1			241-AZ-101, 241-AZ-102, 241-AY-101, and 241-AY-102.	
2	782		License to Operate Ventilation of the 241 AY/AZ Tank Farm	AIR 10-1101
3			(Replaced NOC ID 708) (Replaced by NOC 840)	
4	134			
5	694		241-S-102 Installation and Operation of Waste Retrieval Systems	AIR 09-708
6			(Replaced NOC ID 567)	
7	<u>Obsolete Applicable Requirements</u>			
8	<b>EU</b>	<b>NOC</b>		<b>Permit</b>
9	<b>ID</b>	<b>ID</b>	<b>Project Title</b>	<b>Number</b>
10	142			
11		651	Operation of the 242-A Evaporator emission unit 296-A-22	AIR 06-1016
12			(Replaced by NOC 824)	
13	146			
14		690	Operation of the Liquid Effluent Retention Facility and the 200 Area	AIR 06-1045
15			Effluent Treatment Facility (Replaced NOC ID 562)	
16			(Replaced by NOC 822)	
17	147			
18		690	Operation of the Liquid Effluent Retention Facility and the 200 Area	AIR 06-1045
19			Effluent Treatment Facility (Replaced NOC ID 562)	
20			(Replaced by NOC 822)	
21	148			
22		690	Operation of the Liquid Effluent Retention Facility and the 200 Area	AIR 06-1045
23			Effluent Treatment Facility (Replaced NOC ID 562)	
24			(Replaced by NOC 822)	
25	174			
26		671	241-AZ Tank Farm Annulus Exhauster Operation (Replaced	AIR 06-1031
27			by NOC 826)	
28	175			
29		681	Calibration and Development Activities in the Radiological	AIR 06-1037
30			Calibrations Laboratory (318 Building), Replaced by NOC ID 821	
31	193			
32		638	Construction and operation of the Waste Receiving and Processing	AIR 08-802
33			(WRAP) Facility (Replaced NOC ID 23)	
34	203			
35		686	Installation and Operation of Waste Retrieval Systems in Single	AIR 08-1103
36			-Shell Tank (SST) 241-S-112 (Replaced NOC ID 550) (Replaced	
37			by NOC ID 788)	
38		788	Installation and Operation of Waste Retrieval Systems in Single	AIR 10-1202
39			-Shell Tank (SST) 241-S-112 (Replaces NOC ID 686)	
40	204			
41		666	Installation and operation of Waste Retrieval System in Tanks	AIR 06-1027
42			241-AP-102 and 241-AP-104 (Replaced by NOC 828)	
43	210			
44		707	Surveillance and Maintenance of the 209-E Criticality Laboratory	AIR 08-1022
45		793	Deactivation of 209-E Building (Replaces NOC ID 707)( Replaced	AIR 10-1021
46			by NOC 858)	
47	227			
48		668	Installation and Operation of a Waste Retrieval System in Tanks	AIR 06-1028
49			241-AN-101,102,103, 104, 105, 106 and 107.	

1			(Replaced by NOC 827)	
2	254			
3		716	License to Operate the 222-S Laboratory (Replaced NOC ID 637)	AIR 08-904
4			( Replaced by NOC 831)	
5	301			
6		690	Operation of the Liquid Effluent Retention Facility and the 200	AIR 06-1045
7			Area Effluent Treatment Facility (Replaced NOC ID 562)	
8			(Replaced by NOC 822)	
9	314			
10		711	Consolidated T Plant Operations (Replaced by NOC 830)	AIR 07-306
11				
12	315			
13		648	Operation of the 2706-T Building (replaced by NOC 829)	AIR 06-1013

Obsolete Applicable Requirements

15	<b>EU</b>	<b>NOC</b>		<b>Permit</b>
16	<b>ID</b>	<b>ID</b>	<b>Project Title</b>	<b>Number</b>
17	340			
18		649	Waste Encapsulation and Storage Facility (WESF) Liquid Low	AIR 06-1014
19			Level Radioactive Liquid Removal from Tank 100. (Replaced	
20			NOC ID 259)(Replaced by NOC 832)	
21	361			
22		687	Conducting General Laboratory Processes Research Activities in	AIR 06-1042
23			the 325 Building (Replaced by NOC 807)	
24	385			
25		646	Sodium Residuals Reaction/Removal and other Deactivation Work	AIR 08-1021
26			Activities at the Fast Flux Test Facility	
27		776	Sodium Residuals Reaction/Removal and other Deactivation Work	AIR 10-412
28			Activities at the Fast Flux Test Facility (Replaced by NOC 833)	
29	389			
30		655	Transition of the Plutonium Finishing Plant	AIR 06-1020
31	390			
32		655	Transition of the Plutonium Finishing Plant	AIR 06-1020
33	393			
34		655	Transition of the Plutonium Finishing Plant	AIR 06-1020
35	396			
36		646	Sodium Residuals Reaction/Removal and other Deactivation Work	AIR 08-1021
37			Activities at the Fast Flux Test Facility	
38		776	Sodium Residuals Reaction/Removal and other Deactivation Work	AIR 10-412
39			Activities at the Fast Flux Test Facility (Replaced by NOC 833)	
40	397			
41		646	Sodium Residuals Reaction/Removal and other Deactivation Work	AIR 08-1021
42			Activities at the Fast Flux Test Facility	
43		776	Sodium Residuals Reaction/Removal and other Deactivation Work	AIR 10-412
44			Activities at the Fast Flux Test Facility (Replaced by NOC 833)	
45	398			
46		639	Construction and Operation of Sodium Storage Facility (Replaced	AIR 06-1007
47			NOC ID 65)(Replaced by NOC 842)	
48	399			
49		646	Sodium Residuals Reaction/Removal and other Deactivation Work	AIR 08-1021

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

22 Obsolete Applicable Requirements

23	<b>EU</b>	<b>NOC</b>		<b>Permit</b>
24	<b>ID</b>	<b>ID</b>	<b>Project Title</b>	<b>Number</b>
25		711	Consolidated T Plant Operations (Replaced by NOC 830)	AIR 07-306
26				
27		782	License to Operate Ventilation of the 241 AY/AZ Tank Farm	AIR 10-1101
28			(Replaced NOC ID 708) (Replaced by NOC 840)	
29		783	Tank Farm Restoration and Safe Storage (Replaced NOC ID689)	AIR 10-1102
30			(Replaced by NOC 841)	
31		664	Portable/Temporary Radionuclide Airborne Emissions Units	AIR 06-1025
32			(PTRAEU) ( Replaced by NOC 837)	
33		670	Roof Replacement Activities Involving Radioactive Contamination	AIR 06-1030
34			at Facilities on the Central Plateau (Replaced by NOC 838)	
35		673	Categorical Tank Farm Facility Entry and Surveillance (Replaced	AIR 06-1033
36			by NOC 839)	
37	455			
38		670	Roof Replacement Activities Involving Radioactive Contamination	AIR 06-1030
39			at Facilities on the Central Plateau (Replaced by NOC 838)	
40		700	Operation of the Transuranic Waste Retrieval Project	AIR 06-1054
41		708	License to Operate Ventilation of the 241 AY/AZ Tank Farm	
42		719	Operation of the Transuranic Waste Retrieval Project	AIR 07-1012
43			(Replaced by NOC 804)	
44		782	License to Operate Ventilation of the 241 AY/AZ Tank Farm	AIR 10-1101
45			(Replaced NOC ID 708) (Replaced by NOC 840)	
46		795	License to Operate the Retrieval and Disposal Activities for Boxes	AIR 10-1022
47			80 and 82 for the TRU Waste Retrieval Project	

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

28 Obsolete Applicable Requirements

29	<b>EU</b>	<b>NOC</b>		<b>Permit</b>
30	<b>ID</b>	<b>ID</b>	<b>Project Title</b>	<b>Number</b>
31		714	Installation and Operation of Waste Retrieval Systems in Tanks	AIR 06-1064
32			241-AZ-101, 241-AZ-102, 241-AY-101, and 241-AY-102.	
33		775	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 10-1015
34			Phase 1- Site Preparation and System Installation)	
35			(Replaced NOC ID 702 (Replaced by NOC ID 852)	
36		647	Guzzler Excavation and Backfilling Activities in Support of the 200	AIR 06-1012
37			East Area A Farm Complex (Replaced by 774)	
38		658	Use of the Guzzler™ (Filter Vacuum Truck) Vacuum Excavation	AIR 08-404
39			System for Radiologically Limited Activities on the Hanford Site.	
40			(Replaced by NOC 860)	
41		670	Roof Replacement Activities Involving Radioactive Contamination	AIR 06-1030
42			at Facilities on the Central Plateau (Replaced by NOC 838)	
43		672	Excavation Activities for the Building of Temporary Construction	AIR 06-1032
44			Facilities and the Main Facilities for the River Protection Project	
45			-Waste Treatment Plant (RPP-WTP)	
46		548	244-CR Vault Isolation and Interim Stabilization (Replaced	AIR 02-1255

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

36 Obsolete Applicable Requirements

37	<b>EU</b>	<b>NOC</b>		<b>Permit</b>
38	<b>ID</b>	<b>ID</b>	<b>Project Title</b>	<b>Number</b>
39		711	Consolidated T Plant Operations (Replaced by NOC 830)	AIR 07-306
40		713	Operation of the Integrated Disposal Facility (IDF)	AIR 06-1063
41			(Replaced by NOC 848)	
42		714	Installation and Operation of Waste Retrieval Systems in Tanks	AIR 06-1064
43			241-AZ-101, 241-AZ-102, 241-AY-101, and 241-AY-102.	
44		715	Cleaning Radiologically Contaminated Vehicles (Replaced	AIR 06-1065
45			NOC ID 631) (Replaced By NOC ID 849)	

1	718	Removal of Liquid from Catch Tank 241-ER-311(Replaced	AIR 08-1106
2		by NOC 850)	
3	699	Characterization and Stabilization Activities Involving Radioactive	AIR 06-1053
4		Contamination at Facilities on the Central Plateau	
5	700	Operation of the Transuranic Waste Retrieval Project	AIR 06-1054
6	702	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 09-706
7		Phase 1 Site Preparation and System Installation (Replaced	
8		by NOC ID 775)	
9	703	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 09-704
10		Phase II Waste Retrieval Operations (Replaced NOC ID 587)	
11	705	Supplemental Treatment Test and Demonstration Facility	AIR 06-1059
12	708	License to Operate Ventilation of the 241 AY/AZ Tank Farm	AIR 08-908
13		(Replaced NOC ID 653) (Replaced by NOC ID 782)	
14	692	241-AN Tank Farm Installation and Operation of a New Ventilation	AIR 06-1046
15		System (Replaced by NOC 845)	
16	693	241-AW Tank Farm Installation and Operation of a New	AIR 06-1047
17		Ventilation System ( Replaced by NOC 846)	
18	694	241-S-102 Installation and Operation of Waste Retrieval Systems	AIR 09-708
19		(Replaced NOC ID 567)	
20	695	Tank Farm Decontamination Trailers (Replaced by NOC 791	AIR 06-1049
21		and 792)	
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	698	241-C-200 Series Tanks Retrieval Liquid Pumping and Enhanced	AIR 06-1052
25	683	Sluicing on Tank 241-C-106 (Replaced NOC ID 540)	AIR 06-1038
26		(Replaced by NOC ID 790)	
27	685	244-CR Vault Isolation and Interim Stabilization	AIR 09-902
28		(Replaced NOC ID 548) (Replaced by NOC ID 784)	
29	686	Installation and Operation of Waste Retrieval Systems in Single	AIR 08-1103
30		-Shell Tank (SST) 241-S-112 (Replaced NOC ID 550)	
31		(Replaced by NOC ID 788)	
32	688	E-525 Double-Shell Tank (DST) Transfer System Modifications	AIR 08-1104
33		Project (Replaced NOC ID 555) (Replaced by NOC ID 786)	
34	689	Tank Farm Restoration and Safe Storage (Replaced NOC ID 561)	AIR 06-1044
35		(Replaced by NOC ID 783)	
36	690	Operation of the Liquid Effluent Retention Facility and the 200 Area	AIR 06-1045
37		Effluent Treatment Facility (Replaced NOC ID 562)	
38		(Replaced by NOC 822)	
39	670	Roof Replacement Activities Involving Radioactive Contamination	AIR 06-1030
40		at Facilities on the Central Plateau (Replaced by NOC 838)	
41	672	Excavation Activities for the Building of Temporary Construction	AIR 06-1032
42		Facilities and the Main Facilities for the River Protection Project-	
43		Waste Treatment Plant (RPP-WTP)	
44	673	Categorical Tank Farm Facility Entry and Surveillance	AIR 06-1033
45		(Replaced by NOC 839)	
46			

1 Obsolete Applicable Requirements

2	<b>EU</b>	<b>NOC</b>		<b>Permit</b>
3	<b>ID</b>	<b>ID</b>	<b>Project Title</b>	<b>Number</b>
4		674	Vapor Sampling of Miscellaneous Underground Units	AIR 06-1034
5			(Replaced by NOC 483)	
6		678	200/600 Areas Facilities Support Decontamination Trailer	AIR 07-1102
7			(Intermittent powered exhaust)(Replaced by NOC 844)	
8		635	Tank Waste Remediation System Vadose Zone Characterization	AIR 06-1003
9			(Replaced NOC ID 5) (Replaced by NOC ID 785)	
10		638	Construction and operation of the Waste Receiving and	AIR 08-802
11			Processing (WRAP) Facility (Replaced NOC ID 23)	
12		648	Operation of the 2706-T Building (replaced by NOC 829)	AIR 06-1013
13		655	Transition of the Plutonium Finishing Plant	AIR 06-1020
14		683	Liquid Pumping and Enhanced Sluicing on Tank 241-C-106	AIR 06-1038
15			(Replaced NOC ID 540) (Replaced by NOC ID 790)	
16		685	244-CR Vault Isolation and Interim Stabilization	AIR 09-902
17			(Replaced NOC ID 548) (Replaced by NOC ID 784)	
18		703	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 09-704
19			Phase II Waste Retrieval Operations (Replaced NOC ID 587)	
20		780	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 10-1104
21			Phase II Waste Retrieval Operations (Replaced NOC ID 703)	
22			(Replaced by NOC 816)	
23		784	244-CR Vault Isolation and Interim Stabilization	AIR 10-1103
24			(Replaced NOC ID 685) (Replaced by NOC ID 853)	
25	503			
26		655	Transition of the Plutonium Finishing Plant	AIR 06-1020
27	504			
28		669	Use of Portable Tanks and Revised Source Term Description at	AIR 06-1029
29			Waste Sampling and Characterization Facility (WSCF)	
30			(Replaced by NOC 820)	
31	539			
32		635	Tank Waste Remediation System Vadose Zone Characterization	AIR 06-1003
33			(Replaced NOC ID 5) (Replaced by NOC ID 785)	
34		785	Tank Waste Remediation System Vadose Zone Characterization	AIR 10-801
35			(Replaced NOC ID 635)(Replaced by NOC ID 854)	
36	541			
37		785	Tank Waste Remediation System Vadose Zone Characterization	AIR 10-801
38			(Replaced NOC ID 635)(Replaced by NOC ID 854)	
39		635	Tank Waste Remediation System Vadose Zone Characterization	AIR 06-1003
40			(Replaced NOC ID 5) (Replaced by NOC ID 785)	
41		539	Installation of Breather Filter on Tank 241-C-106	AIR 03-203
42	713			
43		685	244-CR Vault Isolation and Interim Stabilization	AIR 09-902
44			(Replaced NOC ID 548) (Replaced by NOC ID 784)	
45		784	244-CR Vault Isolation and Interim Stabilization	AIR 10-1103
46			(Replaced NOC ID 685) (Replaced by NOC ID 853)	

1	714			
2		685	244-CR Vault Isolation and Interim Stabilization	AIR 09-902
3			(Replaced NOC ID 548) (Replaced by NOC ID 784)	
4		784	244-CR Vault Isolation and Interim Stabilization	AIR 10-1103
5			(Replaced NOC ID 685) (Replaced by NOC ID 853)	
6	735			
7		706	Operation of New Ventilation Systems in AN and AW Tank Farms	AIR 06-1060
8			NOC 706 replaced NOC 593. NOC 802 replaced NOC 706.	
9		802	Operation of New Ventilation Systems in AN and AW Tank Farms	AIR 11-404
10			(Replaced NOC ID 706) (Replaced by NOC ID 809)	

11 Obsolete Applicable Requirements

12	EU	NOC		Permit
13	ID	ID	Project Title	Number
14	736			
15		706	Operation of New Ventilation Systems in AN and AW Tank Farms.	AIR 06-1060
16			NOC 706 replaced NOC 593. NOC 802 replaced NOC 706	
17		802	Operation of New Ventilation Systems in AN and AW Tank Farms	AIR 11-404
18			(Replaced NOC ID 706) (Replaced by NOC ID 809).	
19	738			
20		697	Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28,	AIR 08-1107
21			296-S-22 and 296-T-18(Replaced by 796)	
22		796	Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28,	AIR 10-1201
23			296-S-22 and 296-T-18 (Replaces NOC 697)	
24			(Replaced By NOC 859)	
25	740			
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	742			
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	744			
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	749			
44		698	241-C-200 Series Tanks Retrieval	AIR 06-1052
45		703	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 09-704
46			Phase II Waste Retrieval Operations (Replaced NOC ID 587)	
47		780	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 10-1104

1			Phase II Waste Retrieval Operations (Replaced NOC ID 703)	
2			(Replaced by NOC 816)	
3	751			
4		688	E-525 Double-Shell Tank (DST) Transfer System Modifications	AIR 08-1104
5			Project (Replaced NOC ID 555) (Replaced by NOC ID 786)	
6		786	E-525 Double-Shell Tank (DST) Transfer System Modifications	AIR 10-904
7			Project (Replaced NOC ID 688) (Replaced by NOC ID 855)	
8	755			
9		700	Operation of the Transuranic Waste Retrieval Project	AIR 06-1054
10		719	Operation of the Transuranic Waste Retrieval Project	AIR 07-1012
11			(Replaced by NOC 804)	
12	756			
13		700	Operation of the Transuranic Waste Retrieval Project	AIR 06-1054
14		719	Operation of the Transuranic Waste Retrieval Project	AIR 07-1012
15			(Replaced by NOC 804)	
16	855			
17		706	Operation of New Ventilation Systems in AN and AW Tank Farms	AIR 06-1060
18			NOC 706 replaced NOC 593. NOC 802 replaced NOC 706.	

19 Obsolete Applicable Requirements

20	<b>EU</b>	<b>NOC</b>		<b>Permit</b>
21	<b>ID</b>	<b>ID</b>	<b>Project Title</b>	<b>Number</b>
22		802	Operation of New Ventilation Systems in AN and AW Tank Farms.	AIR 11-404
23			(Replaced NOC ID 706)(Replaced by NOC ID 809)	
24	856			
25		706	Operation of New Ventilation Systems in AN and AW Tank Farms.	AIR 06-1060
26			NOC 706 replaced NOC 593. NOC 802 replaced NOC 706.	
27		802	Operation of New Ventilation Systems in AN and AW Tank Farms	AIR 11-404
28			(Replaced NOC ID 706)(Replaced by NOC ID 809)	
29	874			
30		655	Transition of the Plutonium Finishing Plant	AIR 06-1020
31		709	Deactivation of the Plutonium Finishing Plant Complex	AIR 06-664
32			(Replaced NOC ID 608)	
33	878			
34		590	Supplemental Treatment Test and Demonstration Facility	AIR 04-1001
35		705	Supplemental Treatment Test and Demonstration Facility	AIR 06-1059
36	885			
37		703	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 09-704
38			Phase II Waste Retrieval Operations (Replaced NOC ID 587)	
39		780	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 10-1104
40			Phase II Waste Retrieval Operations (Replaced NOC ID 703)	
41			(Replaced by NOC 816)	
42	886			
43		703	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 09-704
44			Phase II Waste Retrieval Operations (Replaced NOC ID 587)	
45		780	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 10-1104
46			Phase II Waste Retrieval Operations (Replaced NOC ID 703)	
47			(Replaced by NOC 816)	
48				

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

29 Obsolete Applicable Requirements

30	<b>EU</b>	<b>NOC</b>		<b>Permit</b>
31	<b>ID</b>	<b>ID</b>	<b>Project Title</b>	<b>Number</b>
32	969			
33		697	Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28,	AIR 08-1107
34			296-S-22 and 296-T-18(Replaced by 796)	
35		796	Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28,	AIR 10-1201
36			296-S-22 and 296-T-18 (Replaces NOC 697)	
37			(Replaced By NOC 859)	
38	1128			
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	1129			
44		659	Installation and Operation of Breather Filter on Tank 241-UX-302A,	AIR 06-1022
45			241-AZ-154, and 241-U-301B	
46		739	Installation and Operation of Breather Filters on Miscellaneous	AIR 08-1014
47			Tanks. (Replaced by NOC ID 865)	
48	1130			

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

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	<b>EU</b>	<b>NOC</b>		<b>Permit</b>
	<b>ID</b>	<b>ID</b>	<b>Project Title</b>	<b>Number</b>
1			<u>Obsolete Applicable Requirements</u>	
2				
3				
4	1290			
5		792	Tank Farm Decontamination Trailer West (Replaces NOC 695)	AIR 10-1106
6			(Replaced by NOC 857)	
7	1291			
8		791	Tank Farm Decontamination Trailer East (Replaces NOC 695)	AIR 10-1105
9			(Replaced by NOC 856)	
10	1292			
11		792	Tank Farm Decontamination Trailer West (Replaces NOC 695)	AIR 10-1106
12			(Replaced by NOC 857)	
13	1293			
14		780	Categorical Tank Farm Facility Waste Retrieval and Closure:	AIR 10-1104
15			Phase II Waste Retrieval Operations (Replaced NOC ID 703)	
16			(Replaced by NOC 816)	
17	1294			
18		794	242-A Evaporator Building Exhauster K-1 Upgrade	AIR 10-1204
19			(Replaced by NOC 864)	
20	1322			
21		795	License to Operate the Retrieval and Disposal Activities for	AIR 10-1022
22			Boxes 80 and 82 for the TRU Waste Retrieval Project	
23				
24				
25				

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**Table of Changes from FF-01 12-10-14**

<b>Building</b>	<b>Type of Change</b>	<b>Affected Emission Unit</b>	<b>NOC ID/Title</b>	<b>Description of Changes</b>	<b>Date Changed</b>	<b>FF-01 Page Changes</b>	<b>AIR Letter # Authorizing Change</b>
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

Building	Type of Change	Affected Emission Unit	NOC ID/Title	Description of Changes	Date Changed	FF-01 Page Changes	AIR Letter # Authorizing Change
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
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

Building	Type of Change	Affected Emission Unit	NOC ID/Title	Description of Changes	Date Changed	FF-01 Page Changes	AIR Letter # Authorizing Change
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
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

<b>Building</b>	<b>Type of Change</b>	<b>Affected Emission Unit</b>	<b>NOC ID/Title</b>	<b>Description of Changes</b>	<b>Date Changed</b>	<b>FF-01 Page Changes</b>	<b>AIR Letter # Authorizing Change</b>
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
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

<b>Building</b>	<b>Type of Change</b>	<b>Affected Emission Unit</b>	<b>NOC ID/Title</b>	<b>Description of Changes</b>	<b>Date Changed</b>	<b>FF-01 Page Changes</b>	<b>AIR Letter # Authorizing Change</b>
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
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

Building	Type of Change	Affected Emission Unit	NOC ID/Title	Description of Changes	Date Changed	FF-01 Page Changes	AIR Letter # Authorizing Change
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
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

Building	Type of Change	Affected Emission Unit	NOC ID/Title	Description of Changes	Date Changed	FF-01 Page Changes	AIR Letter # Authorizing Change
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
Liquid Effluent Retention Facility (LERF)	Replacement of NOC	EU 146	NOC 911	Removed NOC 822. Replaced with NOC 911. New activity added.	12/10/2014	Removed EU 146, pages 1-3 Replaced with EU 146 pages 1-5 footer dated 12-10-2014	AIR 14-302
Liquid Effluent Retention Facility (LERF)	Replacement of NOC	EU 147	NOC 912	Removed NOC 822. Replaced with NOC 912. New activity added.	12/10/2014	Removed EU 147, pages 1-3 Replaced with EU 147 pages 1-5 footer dated 12-10-2014	AIR 14-303
Liquid Effluent Retention Facility (LERF)	Replacement of NOC	EU 148	NOC 913	Removed NOC 822. Replaced with NOC 913. New activity added.	12/10/2014	Removed EU 148, pages 1-3 Replaced with EU 148 pages 1-5 footer dated 12-10-2014	AIR 14-304
Effluent Treatment Facility (ETF)	Replacement of NOC	EU 301	NOC 905	Removed NOC 822. Replaced with NOC 905. New activity added.	12/10/2014	Removed EU 301, pages 1-3 Replaced with EU 301 pages 1-5 footer dated 12/10/2014	AIR 14-305

Building	Type of Change	Affected Emission Unit	NOC ID/Title	Description of Changes	Date Changed	FF-01 Page Changes	AIR Letter # Authorizing Change
T Plant Complex	Approved removal of abatement controls.	EU 315	NOC 920	Removed NOC 829, Replaced with NOC 920	12/10/2014	Removed EU 315, pages 1-7 Replaced with EU 315 pages 1-8 footer dated 12/10/2014	AIR 14-1001
Waste Encapsulation and Storage Facility (WESF)	Replacement of NOC	EU 340	NOC 649	Clerical error corrected NOC 649	12/10/2014	Removed EU 340, pages 1-2 Replaced with EU 340 pages 1-2 footer dated 12/10/2014	AIR 06-1014 AIR 06-1067 AIR 12-1204
Central Waste complex	Replacement of NOC	EU 439	NOC 922	Removed NOC 654 Replaced with NOC 922. Permacon (EU 461) is still active under NOC 654.	12/10/2014	Removed EU 439, pages 1-6 Replaced with EU 439 pages 1-6, footer dated 12/10/2014	AIR 14-908
200 diffuse/fugitive emissions	Reinstate NOC	EU 486	NOC 856	Reinstate NOC 856. Mistakenly removed in last revision.	12/10/2014	Removed EU 486, pages 1-97 Replaced with EU 486 pages 1-87 footer dated 12/10/2014	AIR 12-335 AIR 12-343
200 diffuse/fugitive emissions	Reinstate NOC	EU 486	NOC 857	Reinstate NOC 857. Mistakenly removed in last revision.	12/10/2014	Removed EU 486, pages 1-97 Replaced with EU 486 pages 1-87 footer dated 12/10/2014	AIR 12-336 AIR 12-343
200 diffuse/fugitive emissions	Replacement of NOC	EU 486	NOC 915	Removed NOC 822, replaced with NOC 915. New activity added.	12/10/2014	Removed EU 486, pages 1-97 Replaced with EU 486 pages 1-87 footer	AIR 14-306

Building	Type of Change	Affected Emission Unit	NOC ID/Title	Description of Changes	Date Changed	FF-01 Page Changes	AIR Letter # Authorizing Change
						dated 12/10/2014	
200 diffuse/fugitive emissions	Replacement of EU	EU 486	NOC 932	Removed NOC 879. Replaced with NOC 932	12/10/2014	Removed EU 486, pages 1-97 Replaced with EU 486 pages 1-87 footer dated 12/10/2014	AIR 14-910
200 diffuse/fugitive emissions	Addition of new activity for 218-E-12B Management of Radiological Contamination at Trench 94	EU 909	NOC 917	Added NOC 917	12/10/2014	Added EU 909 pages 1-6 footer dated 12/10/2014	AIR 14-1008
300 Diffuse/Fugitive Emissions	Replacement of NOC	EU 1185	NOC 921	Removed NOC 862. Replaced with NOC 921. New activity added.	12/10/2014	Removed EU 1185, pages 1-2 Replaced with EU 1185 pages 1-4 footer dated 12/10/2014	AIR 14-509
242-A-Evaporator	Reinstatement of EU	EU 1294	NOC 933	Removed NOC 864. Replaced with NOC 933	12/10/2014	Removed EU 1294, pages 1-3 Replaced with EU 1294 pages 1-3 footer dated 12/10/2014	AIR 14-911
331 LIFE SCI LAB	New Emission Unit	EU 1370	NOC 906	New License. The Operation of EP-331-09-S in the North Wing at the Life Sciences Laboratory (331 Building) issued under NOC 906	12/10/2014	Added EU 1370 pages 1-28 footer dated 12/10/2014	AIR 13-1008

Building	Type of Change	Affected Emission Unit	NOC ID/Title	Description of Changes	Date Changed	FF-01 Page Changes	AIR Letter # Authorizing Change
Tank Farms	New Emission Unit	EU 1371	NOC 899	New activity. Added NOC 899	12/10/2014	Added EU 1371 pages 1-3 footer dated 12/10/2014	AIR 13-1107
Tank Farms	New Emission Unit	EU 1384	NOC 908	New activity. Added NOC 908	12/10/2014	Added EU 1384 pages 1-3 footer dated 12/10/2014	AIR 13-1106
Tank Farms	New Emission Unit	EU 1406	NOC 914	New activity. Added NOC 914	12/10/2014	Added EU 1406 pages 1-2 footer dated 12/10/2014	AIR 14-301
WSCF	New Emission Unit	EU 62 changed to EU 1419	NOC 820	Change in status from point source to fugitive emission unit.	12/10/2014	EU 1419 to Table 2-1 EU 62 will be removed on next revision of FF-01	Per RAES Managers
ALARACT	Revised ALARACT	ALARACT 02		Removed ALARACT 02.2 replaced with ALARACT 02.3	12/10/2014	Removed ALARACT 02.2, pages 1-2. Replaced with ALARACT 02.3 pages 1-2, footer dated 12/10/2014	AIR 14-611

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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 Federal Clean Air Act (FCAA) (e.g.,  
 7 RCRA and CERCLA) are not Title V applicable requirements and are not included in the license. In  
 8 addition, actions taken pursuant to CERCLA are exempt from permitting. However, the actions taken  
 9 must meet the substantive requirements of applicable or relevant and appropriate requirements  
 10 (ARARs) (e.g., WAC 246-247-040, ALARACT). Characterization and cleanup activities are being  
 11 conducted at Hanford pursuant to CERCLA. The characterization and cleanup activities are applying  
 12 best available radionuclide control technology to control emissions, and emissions are being monitored

- 1 to ensure that the offsite dose to the maximally exposed individual is below the applicable standards.
- 2 The CERCLA decision documents, such as an Action Memo, identify ARARs.
- 3 Hanford is required to report all radioactive air emissions (including those resulting from CERCLA
- 4 actions) to demonstrate compliance with all dose standards (WAC-246-247 and 40CFR61).
- 5
- 6

Effective Date: 8/01/2016  
Expiration Date: 3/31/2018

Hanford Air Operating Permit  
Permit No. 00-05-006  
Renewal 2, Revision B

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