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Registration for the Hanford Site: Sources of Radioactive Emissions

M. J. Silvia

Date Published
April 1993

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Prepared for the U.S. Department of Energy
Office of Environmental Restoration and
Waste Management

United States
Department of Energy

P.O. Box 550
Richland, Washington 99352

MASTER

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JUSTIFICATION FOR RADIOACTIVE EMISSION SOURCE REMOVAL FROM 1993 SOURCE REGISTRATION

This section serves as the report of closure, required by Washington Administrative Code 246-247-050(4) for de-registering an emission source.

Westinghouse Hanford Company

B Plant is de-registering emission source 296-B-14, sealed off in the second calendar quarter of 1993. No radioactive air emissions are now vented through this discharge point.

The Plutonium Uranium Extraction (PUREX) Plant is de-registering emission source numbers 296-A-33, 296-A-34, 296-A-35, 296-A-36, 296-A-37, and 296-A-38, sealed off in the second calendar quarter of 1993. No radioactive air emissions are now vented through this discharge point.

The Plutonium Finishing Plant, also known as Z Plant, is de-registering emission source numbers 296-Z-10 and 296-Z-11 from the 1993 registration. These two sources were unnecessarily added to the 1991 registration and are now being de-registered in accordance with a Department of Health recommendation. Since 1988, these emission sources have been exhausting air only from office spaces. They have not released detectable radioactivity since 1987, even though presumably fixed contamination still exists on some inner surfaces of the connecting ductwork.

Pacific Northwest Laboratory (PNL)

PNL is de-registering two emission sources because they were determined not to be separate sources but rather contributing streams of other emission sources. The first source to be de-registered is map number R BLE 033 033 A, which contributes to the emission source of map number R BPE 032 032 A; both were listed under the 331 facility in 1991 registration. The other emission source to be de-registered is map number R BGA 046 046 A, which contributes to the emission source of map number R BPS 045 045 A; both were listed under the ALE (Arid Land Ecology) facility in the 1991 registration.

**JUSTIFICATION FOR RADIOACTIVE EMISSION SOURCE
ADDITION TO 1993 SOURCE REGISTRATION**

This section serves as a summary of administrative changes to previous registrations and startup of operations filed in conjunction with Notices of Construction for new emission sources. In 1993, there were only administrative changes to the previous registrations. The Effluent Information System (EIS)/Onsite Discharge Information System (ODIS) Report was updated by Idaho Falls and the map numbers had changes made to the alpha characters. However, the map numbers did not change and the emission sources can be identified using the six numbers contained in the map number of each source. This change would apply to all sources. Only PNL sources were listed in the 1991 registration using the map numbers, therefore, those sources will reflect a change from the 1991 registration.

Westinghouse Hanford Company

1706-KE has been added as a separate facility and has two emission sources, which were registered with the Department of Health in the last two registration applications. In 1991, there was an administrative error that deleted 1706-KE and replaced it with 1706-KEL. The facility tried to communicate in 1991 that there were two stacks to be identified as 1706-KE and 1706-KER, but because of the similarity in the name of the building and its emissions sources, one emission source was accidentally removed. This year the facility has been listed as a separate source and the stacks properly identified as emission sources 1706-KE and 1706-KER, with map numbers R DKR 003 001 A and R DKR 003 005 A, respectively.

TRUSAF Facility, 224-T/200-W, was previously registered under the T Plant complex. Because the process conducted in the facility has changed three times since it was first constructed, with the latest change occurring in 1985, the facility is now listed as a separate source where transuranic and transuranic-mixed waste is stored. Both map numbers have been listed in the EIS/ODIS Report and were last registered in 1991 as emission sources 296-T-11 and 296-T-12, with map numbers R ATM 216 547 A and R ATM 216 248 A, respectively.

UO₃ Plant was previously registered under the U Plant complex. Recent administrative changes to organization responsibilities have placed the facility under its own organization and is listed as a separate source. All three stacks were listed in the EIS/ODIS Report and were last registered in 1991 under emission sources 296-U-2, 296-U-4 and 296-U-13, map numbers R AUN 216 576 A, R AUN 216 558 A, and R AUN 216 577 A, respectively.

100 Areas

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**
Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 100-N

Facility Description: The 100-N Area, consisting of the N Reactor, a U.S. Department of Energy (DOE) power reactor designed primarily for producing defense special nuclear materials (SNM), and associated auxiliary buildings.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R DNR 001 002 A	116-N Stack
R DNR 001 006 A	109-N-Z-I (Zone I (Steam Generator Cell #1-#5) Vent)
R DNR 001 008 A	109-N-C-6 (Zone IA(Steam Generator Cell #6) Vent)

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____

Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, 1100 N. WA 99504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 100-K

Facility Description: The 100-K Area, the operating of which includes a laboratory and two water storage basins containing irradiated N Reactor uranium fuel elements.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R DKR 003 002 A	105-KE (Vents Fuel Storage Basin (4 Vents))
R DKR 003 004 A	105-KW (Vents Fuel Storage Basin (4 Vents))

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, 1000, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 1706-KE

Facility Description: The facility houses the Engineering and Environmental Demonstration Laboratory, which is a pilot plant laboratory.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R DKR 003 001 A	1706-KE
R DKR 003 005 A	1706-KER

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

200 East Area

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Defense Waste Control, Mail Stop 4B-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: PUREX Plant

Facility Description: The PUREX Plant is a former nuclear fuel reprocessing plant which is transitioning from standby to shutdown.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R APG 151 151 A	291-A-1
R APG 151 152 A	296-A-1
R APG 151 153 A	296-A-2
R APG 151 154 A	296-A-3
R APG 151 156 A	296-A-5A
R APG 151 157 A	296-A-5B
R APG 151 158 A	296-A-6
R APG 151 159 A	296-A-7
R APG 151 160 A	296-A-8
R APG 151 162 A	296-A-10
R APG 151 166 A	296-A-14
R APG 151 557 A	296-A-24

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Detection Center, P.O. Box 100, Mail Stop LE-13
Department of Health, Richland, WA 99360

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: B Plant and Waste Encapsulation Storage Facility (WESF)

Facility Description: In the past, B Plant has been used as a waste fractionization facility for removing ¹³⁷Cs and ⁹⁰Sr. The WESF provides storage of encapsulated strontium fluoride and cesium chloride in water-filled storage basins.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R ABA 151 176 A	291-B-1
R ABB 151 181 A	296-B-5
R ABD 151 185 A	296-B-10
R ABC 151 184 A	296-B-13

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator, or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Administration, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: AR and CR Vaults

Facility Description: The AR and CR vaults are retention and treatment facilities for high-level liquid wastes.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AEF 151 164 A	296-A-12
R AEF 151 165 A	296-A-13
R AEF 151 191 A	296-C-5

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____

Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 200 East Area Tank Farms

Facility Description: Waste stored in tank farms consists of sludge, salt cake, and liquid in single-shell tanks (SSTs) and slurry in double-shell tanks (DSTs). Presently, PUREX Plant cladding-removal waste is received by tank farms before evaporation, and PUREX Plant neutralized acid waste is received by tank farms for storage.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AEF 151 169 A	296-A-17
R AEF 151 170 A	296-A-18
R AEF 151 171 A	296-A-19
R AEF 151 172 A	296-A-20
R AEF 151 175 A	296-A-25
R AEF 151 559 A	296-A-26
R AEF 151 545 A	296-A-27
R AEF 151 546 A	296-A-28
R AEF 151 555 A	296-A-29
R AEF 151 556 A	296-A-30
R AEF 151 579 A	296-A-40
R AEF 151 580 A	296-A-41
R AEF 151 569 A	296-B-28
R AEF 151 200 A	296-P-16
R AEF 151 196 A	296-P-17

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 200 East Area 242-A Evaporator/Crystallizer

Facility Description: The evaporator/crystallizer is used to remove most of the water from non-boiling, high-level liquid waste. The process results in a slurry that is pumped back to tank farms.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AEF 151 173 A	296-A-21
R AEF 151 174 A	296-A-22

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 2431G1 - Grout Treatment Facility

Facility Description: The facility solidifies low-level liquid waste for disposal in underground vaults.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AEF 151 588 A	296-G-1

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____
Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop 16-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 209-E

Facility Description: Provides a heavily shielded reactor room where quantities of plutonium or uranium material in solution, in plastic matrices, or in solid form can be brought into a critical configuration under carefully controlled and monitored conditions.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R BPF 028 028 A	296-P-31

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____

Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

200 West Area

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Defense Waste Division, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: S Plant -- Reduction-Oxidation (202-S)

Facility Description: The Reduction-Oxidation Plant was operated as a fuel reprocessing facility until 1967, when it was shut down. The building is now a retired facility and scheduled for decontamination in the 1990s.

Discharge Points:

<u>Map number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R ASL 216 216 A	291-S-1
R ASL 216 218 A	296-S-2
R ASL 216 220 A	296-S-4
R ASL 216 222 A	296-S-6
R ASV 216 548 A	296-S-7W

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

**SOURCE REGISTRATION
FOR**

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: T Plant

Facility Description: The T Plant is one of the original fuel reprocessing facilities. The last fuel was reprocessed in 1956. Currently, T Plant is used for decontaminating, repairing equipment, repacking wastes, and preparation of waste for storage/disposal.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R ATM 216 236 A	291-T-1
R ATM 216 249 A	296-T-13

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____
Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Division, Mail Stop LE-13
Department of Energy, Richland, WA 99361

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) Identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantify released during last full calendar year. Attach additional information, as needed.

Facility: 224-T/200 W Transuranic Waste Storage and Assay Facility (TRUSAF)

Facility Description: The current 224-T TRUSAF facility mission is to store dry Transuranic and Transuranic mixed waste in DOT approved containers. A portion of the facility is sealed from current operational sections and houses an abandoned plutonium processing area.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R ATM 216 547 A	296-T-11
R ATM 216 248 A	296-T-12

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Energy, Richland, WA 99361

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 221-U U Plant -- Uranium Recovery

Facility Description: U Plant was used to recover uranium from bismuth-phosphate waste and high-level waste from tank farms. U Plant is shut down and is considered a retired facility.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AUO 216 256	291-U-1

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____

Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Health Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: UO_3 PLANT

Facility Description: The UO_3 plant produces uranium trioxide from PUREX Plant solutions.

Discharge Points:

<u>Map number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AUN 216 576 A	296-U-2
R AUN 216 558 A	296-U-4
R AWU 216 577 A	296-U-13

Emission data for each emission source are contained in the "Radioactive Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____
Owner, Operator or Responsible Official

Title: _____ Phone: _____

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**
Air Emissions & Defense Waste Section, Mail Stop LB-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: Plutonium Finishing Plant (PFP)

Facility Description: PFP, also known as Z Plant, recovers plutonium in the form of plutonium nitrate by processing plutonium scrap. In addition, plutonium oxide is produced from the recovered nitrate and plutonium nitrate received from the PUREX Plant.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AZS 216 271 A	291-Z-1
R AZV 216 274 A	296-Z-3
R AZU 216 575 A	296-Z-5
R AZU 216 543 A	296-Z-6
R AZT 216 590 A	296-Z-14

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LB-13
Department of Health, 1100 N. WA 99504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 200 West Area Tank Farms (Excluding Evaporators)

Facility Description: The tanks in the 200 West Area Tank Farms consists of waste in the form of sludge, salt cake, and liquid in SSTs and slurry in DSTs. Presently, PFP waste is received at one of the DSTs.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AWF 216 215 A	296-P-22
R AWF 216 508 A	296-P-23
R AWF 216 231 A	296-S-15
R AWF 216 560 A	296-S-22
R AWF 216 554 A	296-T-18

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 200 West Area 242-S and 242-T Evaporator/Crystallizers

Facility Description: The evaporators/crystallizers are used to remove most of the water from non-boiling high-level liquid waste. The resulting slurry material is routed to tank farms for storage. The 242-T Evaporator/Crystallizer is now shutdown. The 242-S Evaporator/ Crystallizer is on standby.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AWF 216 234 A	296-S-18
R AWF 216 253 A	296-T-17

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Division, Mail Stop UE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 2724-W - Laundry

Facility Description: The facility provides laundry services for contaminated protective clothing and equipment for Hanford Site contractors.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AXX 216 269 A	296-W-1

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____
Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Units Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 222-S Analytical Laboratories

Facility Description: The 222-S Analytical Laboratories provide analytical chemistry services for Westinghouse Hanford Company (WHC) in the areas of airborne and liquid effluents, soils, waste tank characterization, waste tank effluents, process control, bioassay samples, and essential materials.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R ASK 216 232 A	296-S-16
R ASJ 216 227 A	296-S-21

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LB-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 213-W Waste Compactor

Facility Description: The facility compacts radioactive, solid waste to reduce volume.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R AWF 216 589 A	296-W-3

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

300 Area

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 3745

Facility Description: The building contains a counting room for measuring facility ventilation and exhaust samples.

Discharge Points:

Map Number (EIS/ODIS) Emission Source Identifier (Annual Report)

R BPM 074 074 A EP-3745-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____

Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LB-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 3746-A

Facility Description: The building contains facilities for low-level radiological physics studies.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R BPC 062 062 A

EP-3746A-01-V

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LB-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 377

Facility Description: This facility was transferred from PNL to WHC during calendar year 1990. In the future, the facility will operate as a laboratory primarily to test physical properties of radioactive contaminated soil samples.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R BLJ 034 034 A	377-SEGF

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Administration, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 303-C

Facility Description: The building is used primarily for storage of SNM in sealed containers.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R BPI 040 040 A

EP-303C-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____

Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

**SOURCE REGISTRATION
FOR**

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense, 14000 1st Avenue, Mail Stop LB-12
Department of Health, Richland, WA 99352

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) Identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 306-E Building -- Fabrication and Testing Laboratory

Facility Description: The 306-E Building houses the test particle fabrication area, nondestructive examination (NDE) equipment and the Uranium Laboratory.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R WLB 076 076 A	306E-ULAB (306-E Bldg.)

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Controls Unit
Department of Ecology
1000 Third Avenue, Suite 1000
Seattle, WA 98101

USE OF
REGISTRATION
INFORMATION

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 306-W

Facility Description: This building contains shops and laboratory facilities for metal-working and ceramic studies.

Discharge Points:

<u>Map Number</u>	<u>Emission Source Identifier</u>
R BPA 041 041 A	EP-306W-01-V
R BPA 042 042 A	EP-306W-02-V
R BPA 043 043 A	EP-306W-03-V
R BPA 038 038 A	EP-306W-04-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____
Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Activities Section, Mail Stop 122-12
Department of Energy, Richland, WA 99361

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 308 Building -- Fuels Development Laboratory

Facility Description: The 308 Building is currently in transition to a shutdown condition. To date, all SNM, other than holdup, has been removed from the 308 Main Process Building. The 308 Annex Building contains a Test Reactor and Isotope Production (General Atomics) (TRIGA) reactor that has been permanently shut down. The TRIGA fuel is to remain stored in the building until such time that another location for storage has been determined.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R WLC 096 096 A	308-GL-EX
R WLC 098 098 A	308-ET-EX
R WLC 097 097 A	308-TRIGA

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Division, P.O. Box 550, Richland, WA 99352
Department of Health, P.O. Box 48504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 314

Facility Description: The building contains high-bay facilities and laboratories for engineering studies.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R BPH 048 048 A

EP-314-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Extension, Health, Safety & Environment, Mail Stop 48-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 318

Facility Description: The building contains facilities for calibrating radiation survey instruments and processing personnel dosimeters.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R BPK 039 039 A

EP-318-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____

Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**
Air Emissions & Defense Waste Division, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 320

Facility Description: The building contains environmental radiochemistry laboratories.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R BPG 060 060 A	EP-320-01-S
R BPG 049 049 A	EP-320-02-S
R BPG 050 050 A	EP-320-03-S
R BPG 051 051 A	EP-320-04-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____
Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 323

Facility Description: The building contains facilities for investigating structural properties of irradiated materials.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R WLE 077 077 A

EP-323-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____

Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Defense Section, Mail Stop 18-43
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 324

Facility Description: The building contains laboratories for performing chemical and process development activities.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R WLF 086 086 A	EP-324-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 325

Facility Description: The building contains radiochemistry laboratories.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R WLG 080 080 A

EP-325-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Waste Action, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 326

Facility Description: The building contains laboratories and equipment for studies of metallurgical, chemical, and physical behavior of reactor components and fuel materials.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R WLH 116 116 A	EP-326-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____

Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Activities Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 327

Facility Description: The building contains hot cells for examining and testing irradiated materials.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R WLI 091 091 A

EP-327-02-V

R WLI 090 090 A

EP-327-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Administration, Mail Stop LB-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 329

Facility Description: The building contains chemistry laboratories for radioanalytical studies, environmental radionuclide studies, and radiation detection instrumentation development.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R BPB 037 037 A	EP-329-02-V
R BPB 059 059 A	EP-329-03-V
R BPB 068 068 A	EP-329-04-V
R BPB 058 058 A	EP-329-01-V

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, 1000 1st Ave., WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 331

Facility Description: The building contains facilities for biological and ecological research studies, including a wind tunnel for atmospheric pollutant deposition studies.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R BPE 032 032 A
R BPE 036 036 A
R BPE 063 063 A
R BPE 066 066 A

EP-331-01-V
EP-331A-01-S
EP-331A-02-V
EP-331H-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____
Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Section, P.O. Box 550, Richland, WA 99352
Department of Energy, P.O. Box 550, Richland, WA 99352

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 3708

Facility Description: The building contains facilities for measuring small amounts of radionuclides, performing calibration studies, and leach studies with vitrified radioactive waste.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R BPR 035 035 A

EP-3708-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Activities Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 3720

Facility Description: The building contains low-level radiochemistry laboratories and a counting room.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R BPD 070 070 A	EP-3720-01-S
R BPD 069 069 A	EP-3720-02-S
R BPD 071 071 A	EP-3720-03-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Division, P.O. Box 550, Mail Stop 12-13
Department of Health, Richland, WA 99352

Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources:

Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 3730

Facility Description: The building contains a hot cell for metallurgical studies of specimens of irradiated metals.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R WMM 082 082 A

EP-3730-01-S

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Radiation Control Division, Mail Stop 126-13
Department of Energy, Richland, WA 99360

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 340 Facilities - Radioactive Waste Handling

Facility Description: These facilities house the radioactive liquid waste handling capabilities for the 300 Area.

Discharge Points:

Map Number (EIS/ODIS)

Emission point Number (Annual Report)

R WLJ 106 126 A

340-NT-EX

Emission data for each emission source are contained in the "Radionuclide Air Emissions report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____
Owner, Operator or Responsible Official

Title: _____ Phone: _____

400 Area

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Environmental Protection Division, Mail Stop 12-13
Department of Health, 3500 Fairview Avenue, NW, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

3. Sources: Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information as needed.

Facility: Fast Flux Test Facility (FFTF)

Facility Description: The FFTF, which is located in the 400 Area, is a 400-MW thermal, sodium-cooled test reactor designed for irradiation testing of breeder reactor fuels and materials.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R WTA 141 001 A	FFTF-CB-EX
R WTA 141 002 A	FFTF-HT-TR
R WTA 141 003 A	FFTF-RE-SB

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____

Owner, Operator or Responsible Official

Title: _____ Phone: _____

SOURCE REGISTRATION

FOR

RADIOACTIVE AIR EMISSIONS

Air Emissions & Defense Activities Section, Mail Stop DE-13
Department of Health, 1000 10th, WA 98604

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantity released during last full calendar year. Attach additional information, as needed.

Facility: 437 Building - Maintenance and Storage Facility (MASF)

Facility Description: The MASF, which is located in the 400 Area, supports the specialized maintenance and storage requirements of the FFTF.

Discharge Points:

<u>Map Number (EIS/ODIS)</u>	<u>Emission Source Identifier (Annual Report)</u>
R WTA 141 004 A	437-MN&ST

Emission data for each emission source are contained in the "Radionuclide Air Emission report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ Date: _____
Owner, Operator or Responsible Official

Title: _____ Phone: _____

600 Area

**SOURCE REGISTRATION
FOR
RADIOACTIVE AIR EMISSIONS**

Air Emissions & Defense Waste Section, Mail Stop LE-13
Department of Health, Olympia, WA 98504

Division of
Radiation
Protection

1. Source Operator:

U.S. Department of Energy
Richland Operations Office

2. Address:

P.O. Box 550
Richland, Washington 99352

- 3. Sources:** Group by facility, if applicable. Describe each facility (one sentence) identify each emission source (stack, vent, duct outlet, etc.). List principal radionuclides emitted from each facility, and quantify released during last full calendar year. Attach additional information, as needed.

Facility: ALE

Facility Description: This laboratory is located on the Arid Land Ecology Reserve. The building contains facilities for ecology studies.

Discharge Points:

Map Number (EIS/ODIS)

Emission Source Identifier (Annual Report)

R BPS 045 045 A

EP-6652H-01-V

Emission data for each emission source are contained in the "Radionuclide Air Emissions Report for the Hanford Site," published annually.

4. Statement of Compliance: The radioactive air emissions from the above sources _____ do _____ do not meet the emissions standards contained in Chapter 173-480-040 WAC, Ambient Air Quality Standards and Emission Limits for Radionuclides.

Signature: _____ **Date:** _____

Owner, Operator or Responsible Official

Title: _____ **Phone:** _____

**DATE
FILMED**

9/10/93

END