

# Air Emissions Inventory for the Hanford Site, Calendar Year 2025

Prepared for the U.S. Department of Energy  
Assistant Secretary for Environmental Management



U.S. DEPARTMENT OF  
**ENERGY**

Richland Operations  
Office

**P.O. Box 550**

**Richland, Washington 99352**

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# Air Emissions Inventory for the Hanford Site, Calendar Year 2025

Charleston Ramos  
Hanford Mission Integration Solutions

Date Published  
**May 2026**

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Assistant Secretary for Environmental Management

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**ENERGY** | Richland Operations  
Office  
**P.O. Box 550**  
**Richland, Washington 99352**

**APPROVED**

*By Heather Moyer at 2:36 pm, Jun 01, 2026*

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Release Approval

Date

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**ACRONYMS**

AEI	Air Emissions Inventory
AOP	Air Operating Permit
CO	Carbon Monoxide
CWC	Central Waste Complex
CY	calendar year
DOE	Department of Energy
DOE-RL	Department of Energy, Richland Operations Office
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ESPC	Energy Savings Performance Contract
FR	Federal Register
HAP	Hazardous Air Pollutant as listed in the Clean Air Act of 1990
HFO	Hanford Field Office
Lbs	pounds
NH <sub>3</sub>	Ammonia
NO <sub>x</sub>	Oxides of Nitrogen
PM	Particulate Matter
PM-10	Particulate Matter of diameter less than 10 microns
PM-2.5	Particulate Matter of diameter less than 2.5 microns
PNSO	U.S. Department of Energy, Pacific Northwest Site Office
SAW	Secure Access Washington
SO <sub>x</sub>	Oxides of Sulfur
STGC	Standard Terms and General Conditions
TAP	Toxic Air Pollutant as listed in WAC 173-460
VOC	Volatile Organic Compounds
WAC	<i>Washington Administrative Code</i>
WEIRS	Washington Emissions Inventory Reporting System
WRAP	Waste Receiving and Processing
WTP	Waste Treatment Plant
200E	200-East Area of the Hanford Site
200W	200-West Area of the Hanford Site

## 1.0 Introduction

In accordance with Washington Administrative Code (WAC) 173-400 “General Regulations for Air Pollution Sources,” Section 105 and the Hanford Site Air Operating Permit (AOP), Number 00-05-06, Renewal 3, Standard Terms and General Conditions (STGC), Section 5.9, “Annual Air Emission Inventory,” the U.S. Department of Energy (DOE) Hanford Field Office (HFO), Pacific Northwest Site Office (PNSO), and their contractors on the Hanford Site are reporting their emissions inventories for calendar year (CY) 2025. This report contains the summary of emission estimates from the Hanford Site for CY 2025.

The WAC 173-400-105(1) specifically requires the owner(s) or operator(s) of air contaminant sources to submit an air emissions inventory (AEI) each year. The AEI should include stack and fugitive emissions of particulate matter (PM), particulate matter of diameter less than 10 microns (PM-10), particulate matter of diameter less than 2.5 microns (PM-2.5), sulfur dioxides (SO<sub>x</sub>), oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), volatile organic compounds (VOCs), ammonia (NH<sub>3</sub>), and other contaminants. The term “*other contaminants*” in this requirement are not specified, defined, or listed in the WAC 173-400, other regulations, other guidance or interpretations. The Washington State Department of Ecology (Ecology) provides clarification during annual report preparation training that toxic air pollutant (TAP) reporting is not required unless specified in facility specific permits or approval orders. Consistent with Ecology guidance, the Environmental Protection Agency (EPA) states hazardous air pollutant (HAP) and other pollutant reporting is optional as addressed in the Federal Register (FR) Volume 88, Number 152, published August 9, 2023.

The AOP STGC Section 5.9 states the emissions inventory shall be submitted no later than 105 days after the end of the calendar year and will contain information on air emissions:

- For emission units as listed in the AOP Attachment 1, Section 1.4, and
- For emission unit composites as requested by Ecology.

Ecology has requested permittees submit air emissions inventories through the Secure Access Washington (SAW) web-based database Washington Emission Inventory Reporting System (WEIRS). The Ecology WEIRS system is the mechanism used to define the composite emission reporting categories. The emission estimates in this report are entered into WEIRS database and certified by a DOE official to satisfy the Ecology reporting requirements. This document is created and published as a best management practice per a DOE request.

Multiple Hanford contractors were solicited for information and contributed to this report. All the AOP Attachment 1, Section 1.4 emission units were included in the contractor evaluation of emissions. The following is a list of contractors providing input for calendar year 2025:

- Bechtel National, Inc.
- Central Plateau Cleanup Company
- Hanford Laboratory Management and Integration
- Hanford Mission Integration Solutions
- Hanford Tank Waste Operations and Closure
- Pacific Northwest National Laboratory

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## 2.0 Emissions Estimates

The following report sections and tables present the CY 2025 air emissions inventory for the Hanford Site organized in different formats.

### 2.1 Air Emissions Listed by Pollutant

Table 1 lists the total sum of all reported emission sources by pollutant.

<b>Table 1. Calendar Year 2025 Air Emissions by Pollutant</b>		
<b>Pollutant</b>	<b>Calendar Year 2025 Emissions (tons)</b>	<b>Calendar Year 2024 Emissions (tons)</b>
Carbon Monoxide (CO)	16.67	13.13
Nitrogen Oxides (NO <sub>x</sub> )	23.97	20.07
Particulate Matter (PM)	3.78	2.73
Particulate Matter less than 10 microns (PM <sub>10</sub> )	3.69	2.66
Particulate Matter less than 2.5 microns (PM <sub>2.5</sub> )	0.55	0.55
Sulfur Oxides (SO <sub>x</sub> )	0.27	0.29
Volatile Organic Compounds (VOCs)	5.46	4.59
Ammonia (NH <sub>3</sub> )	8.31	2.22
Other Toxic Air Pollutants (TAPs)	10.02 (lbs)	8.4 (lbs)

## 2.2 Air Emissions Listed by Emission Point Identification

Table 2 lists air pollutants by emission point as defined by Ecology for AEI reporting purposes.

Table 2. Calendar Year 2025 Air Emissions by Emission Point Identification										
Emission Point ID	Emission Point Description	CO	NO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>x</sub>	VOC	NH <sub>3</sub>	TAPs
		(Tons)								
22	Tank Farm Exhausters, 200E Composite	0	0	0	0	0	0	0.13	2.06	6.11
23	Tank Farm Exhausters, 200W Composite	0	0	0	0	0	0	0.04	0.14	1.85
24	242A Evaporator, 200E	0	0	0	0	0	0	0	0.02	0
25	200 Area Effluent Treatment, 200E	0	0	0	0	0	0	0	0	0.03
26	ESPC Dist. Oil Boilers, 200 Area Composite	1.19	2.52	0.25	0.19	0.05	0.03	0.22	0.10	0
27	ESPC Natural Gas Boilers, 300 Area Composite	4.42	0.76	0.24	0.24	0.24	0.01	0.26	0	0
28	CWC Diffuse and Fugitive, 200W Area	0	0	0	0	0	0	0	0	2.01
30	T Plant Point Source and Fugitive, 200W Area	0	0	0	0	0	0	0	0	0
31	WRAP Point Source and Fugitive, 200W Area	0	0	0	0	0	0	0	0	0
32	Fuel Dispensing, Evaporative Losses, Area 200/600	0	0	0	0	0	0	0.49	0	0
35	Fuel Dispensing, Evaporative Losses, WTP Construction Site	0	0	0	0	0	0	0	0	0
36	WTP Heaters and Dehumidifiers	0	1.00	0	0	0	0	0	0	0
37	Site wide Composite Emissions from Diesel Fuel Combustion	1.05	4.67	0.28	0.27	0.26	0.23	0.31	0	0.03
39	Site wide Composite Emissions from Propane Fuel Combustion	0.01	0.01	0	0	0	0	0	0	0
40	WTP Standby Diesel Generator	0	1.0	0	0	0	0	0	0	0
41	WTP Steam Plant Boilers	10	13.0	3.0	3.0	0	0	4.0	0	0
42	WTP Low Activity Waste	0	0	0	0	0	0	0	6.0	0
43	WTP Laboratory	0	0	0	0	0	0	0	0	0
44	WTP Effluent Management Facility	0	0	0	0	0	0	0	0	0

No emissions were reported from the following list of emission points during calendar year 2025:

- EP 33 WTP Concrete Batch Plant is permanently shutdown
- EP 34 WTP Pit 30 Quarry is permanently shutdown
- EP 38 Tank Farms direct-fired hot water heaters are permanently shut down.

## 2.3 Fuel Use

Table 3 lists the quantity of fuel use reported by Hanford Site contractors in CY 2025 for emission units listed in AOP Attachment 1 Section 1.4. As illustrated in this table, 9 of the 22 emission points rely upon fuel use records and emission factors to generate emissions estimates.

<b>Table 3. Calendar Year 2025 Fuel Use by Contractor (gallons)</b>									
<b>Contractor</b>	<b>Emission Point Identification Number</b>								
	<b>#26</b>	<b>#27 (therms)</b>	<b>#32</b>	<b>#35</b>	<b>#36</b>	<b>#37</b>	<b>#39</b>	<b>#40</b>	<b>#41</b>
Bechtel National	0	0	0	19,999	89,784	4,791	0	3,762	2,046,672
Central Plateau Cleanup Co.	0	0	0	0	0	2,292	0	0	0
Hanford Laboratory Management and Integration	0	0	0	0	0	3,950	0	0	0
Hanford Mission Integration Solutions	0	0	1,357,623	0	0	4,976	1,784	0	0
Pacific Northwest National Laboratory	0	392,840	0	0	0	821	0	0	0
Hanford Tank Waste Operations and Closure	242,078	0	0	0	0	503	0	0	0
Totals	242,078	392,840	1,357,623	19,999	89,784	17,333	1,784	3,762	2,046,672

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### 3.0 References

AP-42, *Compilation of Air Emission Factors*, United States Environmental Protection Agency, Washington, D.C. Online at:  
[EPA AP-42 Air Emissions Factors](#)

Federal Register Volume 88, Number 152, 2023, Government Publishing Office, Washington, D.C. Online at: [Federal Register Vol88 No152 - 2023](#)

Hanford Site Air Operating Permit 00-05 Renewal 3, 2019, Washington State Department of Ecology. Olympia, Washington. Online at: [Hanford Site AOP 00-05 Renewal 3 - 2019](#)

<https://www.epa.gov/tribal-air/5-source-categories-gasoline-dispensing-facilities-final-rule>, “Potential to Emit Calculator for Gasoline Dispensing Facilities (Final) xlsx”, March 23, 2025, 5 Source Categories – Gasoline Dispensing Facilities (Final Rule), United States Environmental Protection Agency, Washington, D.C. Online at:  
<https://www.epa.gov/tribal-air/5-source-categories-gasoline-dispensing-facilities-final-rule>

WAC 173-400, “General Regulations for Air Pollution Sources,” Washington Administrative Code, Olympia, Washington. Online at: [WAC 173-400 General Regulations for Air Pollution Sources](#)

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**APPENDIX A:**  
**Washington Emissions Inventory Reporting System**  
**Facility Summary eFORM**

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# Facility Summary eFORM

Dept. of Ecology Nuclear Waste Section

M-005-0009

U.S. Dept of Energy

2025

## FACILITY OPERATIONS

<b>Facility Category:</b> <b>NAICS Code:</b> <b>Facility Comments:</b>	HAP and CAP Major 924110
<b>Operating Status:</b>	Operating

## FACILITY LOCATION

<b>Coordinates:</b> <b>Reference Point:</b> <b>Comments:</b>	Latitude: 46.27800 Longitude: -119.27500 Entrance Point
<b>Facility Address:</b>	Hanford Reservation Richland, WA 99352 Benton County
<b>Contact:</b>	Alex E. Teimouri PO BOX 550 Richland, WA 99352 (509) 376-6222 alex.teimouri@rl.doe.gov

## RESPONSIBLE OFFICIAL CERTIFICATION OF DATA ACCURACY

I do hereby certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.

Release Point for Unit 22 - Tank Farm Exhausters, 200 E Composite		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	The exhausters ventilating 5 tank farms vary in stack dimensions and flow parameters. Geographic Coordinates Comments: The dimensions have been previously provided in the AOP application.
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900
Release Point for Unit 23 - Tank Farm Exhausters, 200 W Composite		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	The exhausters ventilating one tank farm vary in dimensions. The schematics have been previously provided in the AOP. Geographic Coordinates Comments: The exhausters ventilating one tank farm vary in dimensions and flow parameters. The dimensions have been previously provided in the AOP application.
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900

Release Point for Unit 24 - 242-A Evaporator, 200 East Area		
Release Point Type	Status	
Vertical	Operating	
Stack	Fugitive	Comments
Height: 111 ft Diameter: .5 ft Temperature: 120°F Flow Rate: 520 ACFM Velocity: 2,648 FPM Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	Mixed radioactive-dangerous waste evaporation; subject to RCRA Subpart AA.
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900
Release Point for Unit 25 - 200 Area Effluent Treat, 200 E Area		
Release Point Type	Status	
Vertical	Operating	
Stack	Fugitive	Comments
Height: 50 ft Diameter: 6 ft Temperature: 85°F Flow Rate: 1,000 ACFS Velocity: 35.4 FPS Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	none
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900

Release Point for Unit 26 - ESPC Dist. Oil Blrs, 200 Area Compos.		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900
Release Point for Unit 27 - ESPC Nat Gas Blrs, 300 Area Compos.		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900

Release Point for Unit 28 - CWC Diffuse and Fugitive, 200 W Area		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900
Release Point for Unit 30 - T Plant Point Source and Fugitive, 200 W Area		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900

Release Point for Unit 31 - WRAP Point Source & Fugitive, 200 W Area		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900
Release Point for Unit 32 - Fuel Dispensing, Evaporative Losses, Area 200/600		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900

Release Point for Unit 35 - Fuel Dispensing, Evaporative Losses, WTP Construction Site		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	none
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900
Release Point for Unit 36 - WTP heaters and Dehumidifiers		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900

Release Point for Unit 37 - Sitewide Composite Emissions from Diesel Fuel Combustion		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	Release point for Unit 37 is comprised of multiple stationary diesel-powered engines, compressors, light plants and generators.
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900
Release Point for Unit 39 - Site-wide Composite Emissions from Propane Fuel Combustion		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: not provided Diameter: not provided Temperature: not provided Flow Rate: not provided Velocity: not provided Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	Release point for Unit 39 is a composite of multiple units operated in various locations on the Hanford Site.
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900

Release point for unit 40 - WTP Standby Diesel Generator, 200 Area		
Release Point Type	Status	
Vertical with Rain Cap	Operating	
Stack	Fugitive	Comments
Height: 19.5 ft Diameter: 1.7 ft Temperature: 758°F Flow Rate: 377.4 ACFS Velocity: 173 FPS Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	none
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900
Release point for unit 41 - WTP Steam Plant Boilers, 200 Area		
Release Point Type	Status	
Vertical with Rain Cap	Operating	
Stack	Fugitive	Comments
Height: 35 ft Diameter: 3 ft Temperature: 285°F Flow Rate: 304 ACFS Velocity: 43 FPS Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	none
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900

Release Point for Unit 42 - WTP LAW, 200 Area		
Release Point Type	Status	
Vertical	Operating	
Stack	Fugitive	Comments
Height: 200 ft Diameter: 1.5 ft Temperature: 241°F Flow Rate: 8,000 ACFM Velocity: 4,527.1 FPM Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	LV-S3 parameters
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900
Release Point for Unit 43 - WTP LAB, 200 Area		
Release Point Type	Status	
Vertical	Operating	
Stack	Fugitive	Comments
Height: 118 ft Diameter: 5 ft Temperature: 95°F Flow Rate: 80,000 ACFM Velocity: 4,074.4 FPM Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	LB-S1
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900

Release Point for Unit 44 - WTP EMF, 200 Area		
Release Point Type	Status	
Fugitive	Operating	
Stack	Fugitive	Comments
Height: 150 ft Diameter: 3 ft Temperature: 95°F Flow Rate: 32,000 ACFM Velocity: 4,527.1 FPM Water Vapor: not provided Oxygen: not provided	Height: not provided Length: not provided Width: not provided Angle: not provided	EM-1 Parameters
Stack and Fugitive		Release Point Coordinates
Fence Line Distance: not provided EPA Release Point ID: not provided		Reference Point: Facility Center Latitude: 46.56300 Longitude: -119.59900

**U.S. Dept of Energy CONTROL APPROACHES**

**Control Approach: CA 22**  
**Release Point: 22 Release Point for Unit 22 - Tank Farm Exhausters, 200 E Composite**

Control Effectiveness (%):		Capture Efficiency (%):
Pollutant	Control Efficiency	
PM Filterable	99.99%	
Measure Type	Measure	
Device	101 - High-Efficiency Particulate Air Filter (HEPA)	

**Control Approach: CA 23**  
**Release Point: 23 Release Point for Unit 23 - Tank Farm Exhausters, 200 W Composite**

Control Effectiveness (%):		Capture Efficiency (%):
Pollutant	Control Efficiency	
PM Filterable	99.99%	
Measure Type	Measure	
Device	101 - High-Efficiency Particulate Air Filter (HEPA)	

**Control Approach: CA 24**  
**Release Point: 24 Release Point for Unit 24 - 242-A Evaporator, 200 East Area**

Control Effectiveness (%):		Capture Efficiency (%):
Pollutant	Control Efficiency	
PM Filterable	99.99%	
Measure Type	Measure	
Device	101 - High-Efficiency Particulate Air Filter (HEPA)	

**Control Approach: CA 25**  
**Release Point: 25 Release Point for Unit 25 - 200 Area Effluent Treat, 200 E Area**

Control Effectiveness (%):		Capture Efficiency (%):	
<b>Pollutant</b>		<b>Control Efficiency</b>	
PM Filterable		99.99%	
<b>Measure Type</b>	<b>Measure</b>		
Device	101 - High-Efficiency Particulate Air Filter (HEPA)		

**Control Approach: CA 26**  
**Release Point: 26 Release Point for Unit 26 - ESPC Dist. Oil Blrs, 200 Area Compos.**

Control Effectiveness (%):		Capture Efficiency (%):	
<b>Pollutant</b>		<b>Control Efficiency</b>	
Nitrogen Oxides		40.00%	
<b>Measure Type</b>	<b>Measure</b>		
Device	205 - Low NOx Burner (LNB)		

**Control Approach: CA 27**  
**Release Point: 27 Release Point for Unit 27 - ESPC Nat Gas Blrs, 300 Area Compos.**

Control Effectiveness (%):		Capture Efficiency (%):	
<b>Pollutant</b>		<b>Control Efficiency</b>	
Nitrogen Oxides		40.00%	
<b>Measure Type</b>	<b>Measure</b>		
Device	205 - Low NOx Burner (LNB)		

**Control Approach: CA 28**  
**Release Point: 28 Release Point for Unit 28 - CWC Diffuse and Fugitive, 200 W Area**

Control Effectiveness (%):		Capture Efficiency (%):	
<b>Pollutant</b>		<b>Control Efficiency</b>	
PM Filterable		99.99%	
<b>Measure Type</b>	<b>Measure</b>		
Device	101 - High-Efficiency Particulate Air Filter (HEPA)		

**Control Approach: CA 30**  
**Release Point: 30 Release Point for Unit 30 - T Plant Point Source and Fugitive, 200 W Area**

Control Effectiveness (%):		Capture Efficiency (%):	
<b>Pollutant</b>		<b>Control Efficiency</b>	
PM10 Filterable		99.99%	

Measure Type	Measure
Device	101 - High-Efficiency Particulate Air Filter (HEPA)

**Control Approach: CA 31**  
**Release Point: 31 Release Point for Unit 31 - WRAP Point Source & Fugitive, 200 W Area**

Control Effectiveness (%):	Capture Efficiency (%):
----------------------------	-------------------------

Pollutant	Control Efficiency
PM Filterable	99.99%

Measure Type	Measure
Device	101 - High-Efficiency Particulate Air Filter (HEPA)

**Control Approach: CA 32**  
**Release Point: 32 Release Point for Unit 32 - Fuel Dispensing, Evaporative Losses, Area 200/600**

Control Effectiveness (%):	Capture Efficiency (%):
----------------------------	-------------------------

Pollutant	Control Efficiency
Volatile Organic Compounds	50.00%

Measure Type	Measure
Device	323 - Fixed Roof Tank

**Control Approach: CA 35**  
**Release Point: 35 Release Point for Unit 35 - Fuel Dispensing, Evaporative Losses, WTP Construction Site**

Control Effectiveness (%):	Capture Efficiency (%):
----------------------------	-------------------------

Pollutant	Control Efficiency
Volatile Organic Compounds	50.00%

Measure Type	Measure
Device	99 - Other Control Device

**Control Approach: CA 36**  
**Release Point: 36 Release Point for Unit 36 - WTP heaters and Dehumidifiers**

Control Effectiveness (%):	Capture Efficiency (%):
----------------------------	-------------------------

Pollutant	Control Efficiency
Nitrogen Oxides	25.00%

Measure Type	Measure
Device	205 - Low NOx Burner (LNB)

**Control Approach: CA 37**  
**Release Point: 37 Release Point for Unit 37 - Sitewide Composite Emissions from Diesel Fuel Combustion**

Control Effectiveness (%):	Capture Efficiency (%):
----------------------------	-------------------------

Pollutant		Control Efficiency
Sulfur Dioxide		25.00%
Measure Type	Measure	
Device	99 - Other Control Device	

<b>Control Approach: CA 38</b>	
<b>Release Point: 38 Release Point for Unit 38 - Tank Farms Direct-Fired Hot Water Heaters Composite</b>	
Control Effectiveness (%):	Capture Efficiency (%):

<b>Control Approach: CA 39</b>	
<b>Release Point: 39 Release Point for Unit 39 - Site-wide Composite Emissions from Propane Fuel Combustion</b>	

Control Effectiveness (%):	Capture Efficiency (%):	
Pollutant		Control Efficiency
Nitrogen Oxides		25.00%
Measure Type	Measure	
Device	99 - Other Control Device	

**U.S. Dept of Energy UNITS**

<b>Unit ID: 22</b>		
Tank Farm Exhausters, 200 E Composite		
Unit Type	Status	Capacity
690 - Other Process Equipment	Operating	capacity not provided
<b>Unit ID: 23</b>		
Tank Farm Exhausters, 200 W Composite		
Unit Type	Status	Capacity
690 - Other Process Equipment	Operating	capacity not provided
<b>Unit ID: 24</b>		
242-A Evaporator, 200 East Area		
Unit Type	Status	Capacity
490 - Other Evaporative Sources	Operating	capacity not provided
<b>Unit ID: 25</b>		
200 Area Effluent Treat, 200 E Area		
Unit Type	Status	Capacity
690 - Other Process Equipment	Operating	capacity not provided

<b>Unit ID: 26</b> ESPC Dist. Oil Blrs, 200 Area Compos.		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
290 - Other Combustion	Operating	capacity not provided
<b>Unit ID: 27</b> ESPC Nat Gas Blrs, 300 Area Compos.		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
290 - Other Combustion	Operating	capacity not provided
<b>Unit ID: 28</b> CWC Diffuse and Fugitive, 200 W Area		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
999 - Unclassified	Operating	capacity not provided
<b>Unit ID: 30</b> T Plant Point Source and Fugitive, 200 W Area		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
999 - Unclassified	Operating	capacity not provided
<b>Unit ID: 31</b> WRAP Point Source & Fugitive, 200 W Area		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
999 - Unclassified	Operating	capacity not provided
<b>Unit ID: 32</b> Fuel Dispensing, Evaporative Losses, 200 Area		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
490 - Other Evaporative Sources	Operating	capacity not provided
<b>Unit ID: 35</b> Fuel Dispensing, Evaporative Losses, WTP Construction Site		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
400 - Storage Tank	Operating	capacity not provided
<b>Unit ID: 36</b> WTP heaters and dehumidifiers		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
290 - Other Combustion	Operating	1 Million BTU Per Hour
<b>Unit ID: 37</b> Sitewide Composite Emissions from Diesel Fuel Combustion		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
290 - Other Combustion	Operating	capacity not provided
<b>Unit ID: 39</b> Site-wide Composite from Propane Fuel Combustion		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>

290 - Other Combustion	Operating	capacity not provided
<b>Unit ID: 40</b> WTP Standby Diesel Generator		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
290 - Other Combustion	Operating	2,500 Kilowatts
<b>Unit ID: 41</b> WTP Steam Plant Boilers, 200 Area		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
310 - Roof Vents/Building Vents	Operating	50.2 Million BTU Per Hour
<b>Unit ID: 42</b> WTP LAW, 200 Area		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
999 - Unclassified	Operating	capacity not provided
<b>Unit ID: 43</b> WTP LAB, 200 Area		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
999 - Unclassified	Operating	capacity not provided
<b>Unit ID: 44</b> WTP EMF		
<b>Unit Type</b>	<b>Status</b>	<b>Capacity</b>
999 - Unclassified	Operating	capacity not provided

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 22 Process ID: 01 Process Description: not provided**  
**SCC CODE: 39999999 - Misc Manuf / Indus Processes /Other Not Classified**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
<b>Material:</b>	<b>Material State:</b>
<b>Throughput and Units:</b>	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments: Exhausters operated continuously and/or intermittently throughout the reporting year.
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,760	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
22	Release Point for Unit 22 - Tank Farm Exhausters, 200 E Composite	100%

**EMISSIONS**

U.S. Dept of Energy M-005-0009  
Unit ID: 22 Process ID: 01

<b>CO - Carbon Monoxide 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds</b>	
<b>VOC Expression: Unknown 0.13 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: Calculation of air emissions sample data.	
<b>NH3 - Ammonia 2.06 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: Calculation of air emissions sample data.	

<b>62759 - N-Nitrosodimethylamine 2.62 LB</b>	
Calculation Method: Stack Test (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>593748 - Dimethyl Mercury 0.01 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>7439976 - Mercury 3.03 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>10595956 - N-Nitrosomethylethylamine 0.01 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>59892 - N-Nitrosomorpholine 0.12 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>7440439 - Cadmium 0.01 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>7440473 - Chromium 0.06 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>7440020 - Nickel 0.25 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 23 Process ID: 01 Process Description: not provided**  
**SCC CODE: 39999999 - Misc Manuf / Indus Processes /Other Not Classified**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
<b>Material:</b>	<b>Material State:</b>
<b>Throughput and Units:</b>	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments: Exhausters operated continuously and/or intermittently throughout the reporting year.
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,760	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
23	Release Point for Unit 23 - Tank Farm Exhausters, 200 W Composite	100%

**EMISSIONS**

U.S. Dept of Energy M-005-0009  
Unit ID: 23 Process ID: 01

<b>CO - Carbon Monoxide      0.00    TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia      0.14    TON</b>	
Calculation Method: Stack Test (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds</b>	
<b>VOC Expression: Sum of Volatile Organic Compounds      0.04    TON</b>	
Calculation Method: Stack Test (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: Emissions based on stack air sample data.	
<b>SO2 - Sulfur Dioxide      0.00    TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond)      0.00    TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond)      0.00    TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides      0.00    TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond)      0.00    TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

<b>62759 - N-Nitrosodimethylamine 0.31 LB</b>	
Calculation Method: Stack Test (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>10595956 - N-Nitrosomethylethylamine 0.01 LB</b>	
Calculation Method: Stack Test (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>50000 - Formaldehyde 0.00 LB</b>	
Calculation Method: Stack Test (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>75070 - Acetaldehyde 1.53 LB</b>	
Calculation Method: Stack Test (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 24 Process ID: 01 Process Description: not provided**  
**SCC CODE: 39999999 - Misc Manuf / Indus Processes /Other Not Classified**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
177 - Liquid Waste	Input
<b>Throughput and Units:</b>	
1126.90 1000 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments:
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,736	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
24	Release Point for Unit 24 - 242-A Evaporator, 200 East Area	100%

## EMISSIONS

U.S. Dept of Energy M-005-0009 Unit ID: 24 Process ID: 01	
<b>CO - Carbon Monoxide 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds VOC Expression: Unknown 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.02 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 25 Process ID: 01 Process Description: not provided**  
**SCC CODE: 39999999 - Misc Manuf / Indus Processes /Other Not Classified**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
004 - Wastewater	Input
<b>Throughput and Units:</b>	
16400.00 1000 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	0.0	Comments:
Spring %	25 %	Days/Week	0.0	
Summer %	25 %	Weeks/Year	0	
Fall %	25 %	Hours/Year	0	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
25	Release Point for Unit 25 - 200 Area Effluent Treat, 200 E Area	100%

**EMISSIONS**

U.S. Dept of Energy M-005-0009  
**Unit ID: 25 Process ID: 01**

<b>CO - Carbon Monoxide 0.00 TON</b>	
Calculation Method: Material Balance	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 TON</b>	
Calculation Method: Material Balance	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 0.00 TON</b>	
Calculation Method: Material Balance	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: Material Balance	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds</b>	
<b>VOC Expression: Sum of Volatile Organic Compounds 0.00 TON</b>	
Calculation Method: Material Balance	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

<b>67663 - Chloroform 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>62759 - N-Nitrosodimethylamine 0.03 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

<b>U.S. Dept of Energy PROCESSES</b>		
<b>Unit ID: 26</b>	<b>Process ID: 01</b>	<b>Process Description: not provided</b>
<b>SCC CODE: 10200501 - Ext Comb /Industrial /Distillate Oil - Grades 1 and 2 /Boiler</b>		

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
823 - Distillate Oil (No. 1 & 2)	Input
<b>Throughput and Units:</b>	
242.08 1000 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	0%
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments:
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,736	

sum of quarters must be 100%

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
26	Release Point for Unit 26 - ESPC Dist. Oil Blrs, 200 Area Compos.	100%

**EMISSIONS**U.S. Dept of Energy M-005-0009  
Unit ID: 26 Process ID: 01**CO - Carbon Monoxide 1.19 TON**

Calculation Method: USEPA Emission Factor (no Control Efficiency used)

Emission Factor: Emission Factor Desc: none entered

Comments: none entered

**NH3 - Ammonia 0.10 TON**

Calculation Method: USEPA Emission Factor (no Control Efficiency used)

Emission Factor: Emission Factor Desc: none entered

Comments: none entered

**NOX - Nitrogen Oxides 2.52 TON**

Calculation Method: USEPA Emission Factor (no Control Efficiency used)

Emission Factor: Emission Factor Desc: none entered

Comments: none entered

**PM-FIL - PM Filterable 0.25 TON**

Calculation Method: USEPA Emission Factor (no Control Efficiency used)

Emission Factor: Emission Factor Desc: none entered

Comments: none entered

**PM25-FIL - PM2.5 Filterable 0.05 TON**

Calculation Method: USEPA Emission Factor (no Control Efficiency used)

Emission Factor: Emission Factor Desc: none entered

Comments: none entered

**PM10-FIL - PM10 Filterable 0.19 TON**

Calculation Method: USEPA Emission Factor (no Control Efficiency used)

Emission Factor: Emission Factor Desc: none entered

Comments: none entered

**SO2 - Sulfur Dioxide 0.03 TON**

Calculation Method: USEPA Emission Factor (no Control Efficiency used)

Emission Factor: Emission Factor Desc: none entered

Comments: none entered

**VOC - Volatile Organic Compounds 0.22 TON**

Calculation Method: USEPA Emission Factor (no Control Efficiency used)

Emission Factor: Emission Factor Desc: none entered

Comments: none entered

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 27 Process ID: 01 Process Description: not provided**  
**SCC CODE: 10200602 - Ext Comb /Industrial /Natural Gas /10-100 Million Btu/hr**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
209 - Natural Gas	Input
<b>Throughput and Units:</b>	
37.81 MILLION CUBIC FEET	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments:
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,760	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
27	Release Point for Unit 27 - ESPC Nat Gas Blrs, 300 Area Compos.	100%

**EMISSIONS**

U.S. Dept of Energy M-005-0009 Unit ID: 27 Process ID: 01	
<b>SO2 - Sulfur Dioxide 0.01 TON</b>	
Calculation Method: S/L/T Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>CO - Carbon Monoxide 4.42 TON</b>	
Calculation Method: S/L/T Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 0.76 TON</b>	
Calculation Method: S/L/T Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds 0.26 TON</b>	
Calculation Method: S/L/T Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.24 TON</b>	
Calculation Method: S/L/T Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.24 TON</b>	
Calculation Method: S/L/T Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.24 TON</b>	
Calculation Method: S/L/T Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 28 Process ID: 01 Process Description: not provided**  
**SCC CODE: 39999999 - Misc Manuf / Indus Processes /Other Not Classified**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
<b>Material:</b>	<b>Material State:</b>
<b>Throughput and Units:</b>	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments: storage of vented containers pursuant to DE00NWP-002, Revision 1
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,736	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
28	Release Point for Unit 28 - CWC Diffuse and Fugitive, 200 W Area	100%

**EMISSIONS**

U.S. Dept of Energy M-005-0009  
Unit ID: 28 Process ID: 01

<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>CO - Carbon Monoxide 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds</b> <b>VOC Expression: Unknown 0.00 TON</b>	
Calculation Method: Material Balance	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>56235 - Carbon Tetrachloride 0.71 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

<b>67641 - Acetone 0.21 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>75092 - Dichloromethane 0.43 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>71432 - Benzene 0.05 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>1330207 - Xylenes (Mixed Isomers) 0.01 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>67663 - Chloroform 0.20 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>71556 - 1,1,1-Trichloroethane 0.29 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>79016 - Trichloroethylene 0.01 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>67561 - Methyl Alcohol 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>78933 - Methyl Ethyl Ketone 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>127184 - Perchloroethylene 0.00 LB</b>	
Calculation Method: Engineering Judgment	

Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>108883 - Toluene 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>107062 - 1,2-Dichloroethane 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>141786 - Ethyl Acetate 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>75694 - Trichlorofluoromethane 0.09 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>106467 - 1,4-Dichlorobenzene 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>302012 - Hydrazine 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>67630 - Isopropyl Alcohol 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>7726956 - Bromine 0.01 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 30 Process ID: 01 Process Description: not provided**  
**SCC CODE: 39999999 - Misc Manuf / Indus Processes /Other Not Classified**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
<b>Material:</b>	<b>Material State:</b>
<b>Throughput and Units:</b>	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments:
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,736	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
30	Release Point for Unit 30 - T Plant Point Source and Fugitive, 200 W Area	100%

## EMISSIONS

U.S. Dept of Energy M-005-0009 Unit ID: 30 Process ID: 01	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds VOC Expression: Sum of Volatile Organic Compounds 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>CO - Carbon Monoxide 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 31 Process ID: 01 Process Description: not provided**  
**SCC CODE: 39999999 - Misc Manuf / Indus Processes /Other Not Classified**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
<b>Material:</b>	<b>Material State:</b>
<b>Throughput and Units:</b>	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments: Store and repack vented containers pursuant to DE03NWP-002, Amendment 1.
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,736	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
31	Release Point for Unit 31 - WRAP Point Source & Fugitive, 200 W Area	100%

**EMISSIONS**

**U.S. Dept of Energy M-005-0009**  
**Unit ID: 31 Process ID: 01**

<b>NOX - Nitrogen Oxides 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds VOC Expression: Unknown 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>CO - Carbon Monoxide 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>67641 - Acetone 0.09 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

<b>75092 - Dichloromethane 0.57 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>56235 - Carbon Tetrachloride 0.26 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>1330207 - Xylenes (Mixed Isomers) 0.01 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>71432 - Benzene 0.04 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>67663 - Chloroform 0.16 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>71556 - 1,1,1-Trichloroethane 0.10 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>108883 - Toluene 0.01 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>78933 - Methyl Ethyl Ketone 0.04 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>79016 - Trichloroethylene 0.04 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>67561 - Methyl Alcohol 0.01 LB</b>	
Calculation Method: Engineering Judgment	

Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>141786 - Ethyl Acetate 0.01 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>107062 - 1,2-Dichloroethane 0.01 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>75694 - Trichlorofluoromethane 0.18 LB</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 32 Process ID: 01 Process Description: not provided**  
**SCC CODE: 40400402 - Petrol Prod Stor-Underground Tanks /Gasoline RVP 13: Working Loss**

Insignificant Emissions Unit? No

Status:Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
127 - Gasoline	Output
<b>Throughput and Units:</b>	
1357.62 1000 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Season	Percentage	Frequency	Hours/Year	Comments: fuel dispensing, evaporative loss
Winter %	26.1 %	Hours/Day	24.0	
Spring %	24.8 %	Days/Week	7.0	
Summer %	24.8 %	Weeks/Year	52	
Fall %	24.3 %	Hours/Year	8,760	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
32	Release Point for Unit 32 - Fuel Dispensing, Evaporative Losses, Area 200/600	100%

## EMISSIONS

U.S. Dept of Energy M-005-0009 Unit ID: 32 Process ID: 01	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds VOC Expression: Unknown 0.49 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>CO - Carbon Monoxide 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 35 Process ID: 01 Process Description: not provided**  
**SCC CODE: 39090011 - Fuel Storage - Fixed Roof Tanks /Dual Fuel (Gas/Oil): Breathing Loss**

Insignificant Emissions Unit? Yes

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
044 - Diesel	Input
<b>Throughput and Units:</b>	
20.00 1000 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	0%
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments: Diesel fuel dispensing, evaporative loss. Fuel 00.0015% sulfur content.
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,760	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
35	Release Point for Unit 35 - Fuel Dispensing, Evaporative Losses, WTP Construction Site	100%

## EMISSIONS

U.S. Dept of Energy M-005-0009 Unit ID: 35 Process ID: 01	
<b>PM-PRI - PM Primary (Filt + Cond)</b>	<b>0.00 TON</b>
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond)</b>	<b>0.00 TON</b>
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide</b>	<b>0.00 TON</b>
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond)</b>	<b>0.00 TON</b>
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia</b>	<b>0.00 TON</b>
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds</b>	<b>0.00 TON</b>
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>CO - Carbon Monoxide</b>	<b>0.00 TON</b>
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides</b>	<b>0.00 TON</b>
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 35 Process ID: 02 Process Description: not provided**  
**SCC CODE: 39090011 - Fuel Storage - Fixed Roof Tanks /Dual Fuel (Gas/Oil): Breathing Loss**

Insignificant Emissions Unit? Yes

Status:Temporarily Shutdown

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Shutdown	
<b>Material:</b>	<b>Material State:</b>
127 - Gasoline	Existing
<b>Throughput and Units:</b>	
0.00 1000 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	%	Hours/Day	0.0	Comments: Gasoline fuel dispensing did not occur during reporting period.
Spring %	%	Days/Week	0.0	
Summer %	%	Weeks/Year	0	
Fall %	%	Hours/Year	0	

sum of quarters must be 100%

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
35	Release Point for Unit 35 - Fuel Dispensing, Evaporative Losses, WTP Construction Site	100%

**EMISSIONS**

<b>U.S. Dept of Energy M-005-0009</b>	
<b>Unit ID: 35 Process ID: 02</b>	
Calculation Method: none entered	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 36 Process ID: 01 Process Description: not provided**  
**SCC CODE: 10500205 - Ext Comb /Space Heater /Comm-Inst /Distillate Oil**

Insignificant Emissions Unit? No

Status:Temporarily Shutdown

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
044 - Diesel	Input
<b>Throughput and Units:</b>	
0.00 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	0%
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	20.0	Comments: Various diesel heaters are allowed for operation.
Spring %	25 %	Days/Week	4.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	4,160	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
36	Release Point for Unit 36 - WTP heaters and Dehumidifiers	100%

**EMISSIONS**

U.S. Dept of Energy M-005-0009	
Unit ID: 36 Process ID: 01	
Calculation Method: none entered	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 36 Process ID: 02 Process Description: not provided**  
**SCC CODE: 10500210 - Ext Comb /Space Heater /Comm-Inst /Liquified Petroleum Gas (LPG)**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
255 - Propane	Input
<b>Throughput and Units:</b>	
89.78 1000 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	40 %	Hours/Day	20.0	Comments: Various propane heaters and dehumidifiers are allowed for operation.
Spring %	10 %	Days/Week	4.0	
Summer %	10 %	Weeks/Year	52	
Fall %	40 %	Hours/Year	4,160	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
36	Release Point for Unit 36 - WTP heaters and Dehumidifiers	100%

## EMISSIONS

U.S. Dept of Energy M-005-0009 Unit ID: 36 Process ID: 02	
<b>VOC - Volatile Organic Compounds 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>CO - Carbon Monoxide 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 1.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 37 Process ID: 01 Process Description:** Sitewide composite emissions from diesel fuel combustion  
**SCC CODE:** 20200401 - Int Comb /Industrial /Large Bore Engine /Diesel

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
823 - Distillate Oil (No. 1 & 2)	Input
<b>Throughput and Units:</b>	
17.33 1000 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	0%
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments: Composite includes other SCC codes and emissions per NWP-96-1, DE02NWP-002, PSD-02-01, DE07NWP-002, DE08NWP-001, DE12NWP-002, and DE02NWP-001
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,736	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
37	Release Point for Unit 37 - Sitewide Composite Emissions from Diesel Fuel Combustion	100%

**EMISSIONS**

**U.S. Dept of Energy M-005-0009**  
**Unit ID: 37 Process ID: 01**

<b>PM-PRI - PM Primary (Filt + Cond) 0.28 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 4.67 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>CO - Carbon Monoxide 1.05 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.23 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.26 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.27 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds 0.31 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>130498292 - PAH, Total 0.03 LB</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 39 Process ID: 01 Process Description: Internal Combustion**  
**SCC CODE: 20201001 - Int Comb /Industrial /Liquified Petroleum Gas /Propane: Reciprocating**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
255 - Propane	Input
<b>Throughput and Units:</b>	
1.78 1000 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	91502.00 BTUs / GAL

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments: Multiple internal combustion units operate intermittently throughout the reporting period as needed.
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,736	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
39	Release Point for Unit 39 - Site-wide Composite Emissions from Propane Fuel Combustion	100%

## EMISSIONS

U.S. Dept of Energy M-005-0009 Unit ID: 39 Process ID: 01	
<b>CO - Carbon Monoxide 0.01 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 0.01 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds</b>	
<b>VOC Expression: Sum of Volatile Organic Compounds 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 40 Process ID: 01 Process Description: WTP Standby Diesel Generator**  
**SCC CODE: 20100102 - Int Comb /Electric Gen /Distillate Oil (Diesel) /Reciprocating**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
044 - Diesel	Input
<b>Throughput and Units:</b>	
3762.00 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	10.0	Comments:
Spring %	25 %	Days/Week	4.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	2,080	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
40	Release point for unit 40 - WTP Standby Diesel Generator, 200 Area	100%

## EMISSIONS

U.S. Dept of Energy M-005-0009 Unit ID: 40 Process ID: 01	
<b>CO - Carbon Monoxide 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 1.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 41 Process ID: 01 Process Description: WTP Steam Plant Boilers**  
**SCC CODE: 10200506 - Ext Comb /Industrial /Distillate Oil /Boiler > 100 Million BTU/hr**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
Routine	
<b>Material:</b>	<b>Material State:</b>
044 - Diesel	Input
<b>Throughput and Units:</b>	
2046.67 1000 GALLONS	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments:
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,760	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
41	Release point for unit 41 - WTP Steam Plant Boilers, 200 Area	100%

**EMISSIONS**U.S. Dept of Energy M-005-0009  
Unit ID: 41 Process ID: 01

<b>CO - Carbon Monoxide 10.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NH3 - Ammonia 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 13.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM10-PRI - PM10 Primary (Filt + Cond) 3.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM25-PRI - PM2.5 Primary (Filt + Cond) 0.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>PM-PRI - PM Primary (Filt + Cond) 3.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>SO2 - Sulfur Dioxide 0.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>VOC - Volatile Organic Compounds 4.00 TON</b>	
Calculation Method: USEPA Emission Factor (no Control Efficiency used)	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

<b>U.S. Dept of Energy PROCESSES</b>		
<b>Unit ID: 42</b>	<b>Process ID: 01</b>	<b>Process Description: WTP LAW</b>
<b>SCC CODE: 39999999 - Misc Manuf / Indus Processes /Other Not Classified</b>		

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
<b>Material:</b>	<b>Material State:</b>
<b>Throughput and Units:</b>	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments: The Waste Treatment Plant (WTP) Low-Activity Waste (LAW) facility vitrifies Hanford Site radioactive tank farm waste into glass.
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,736	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
42	Release Point for Unit 42 - WTP LAW, 200 Area	100%

## EMISSIONS

U.S. Dept of Energy M-005-0009 Unit ID: 42 Process ID: 01	
<b>NH3 - Ammonia 6.00 TON</b>	
Calculation Method: Engineering Judgment	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	
<b>NOX - Nitrogen Oxides 1.00 TON</b>	
Calculation Method: Continuous Emission Monitoring System	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 43 Process ID: 01 Process Description: WTP LAB**  
**SCC CODE: 39999999 - Misc Manuf / Indus Processes /Other Not Classified**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
<b>Material:</b>	<b>Material State:</b>
<b>Throughput and Units:</b>	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments: The Waste Treatment Plant (WTP) Analytical Laboratory (LAB) analyses radioactive waste samples from the vitrification process.
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,736	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
43	Release Point for Unit 43 - WTP LAB, 200 Area	100%

**EMISSIONS**

<b>U.S. Dept of Energy M-005-0009</b> <b>Unit ID: 43 Process ID: 01</b>	
Calculation Method: none entered	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

**U.S. Dept of Energy PROCESSES**  
**Unit ID: 44 Process ID: 01 Process Description: WTP EMF**  
**SCC CODE: 39999999 - Misc Manuf / Indus Processes /Other Not Classified**

Insignificant Emissions Unit? No

Status: Operating

**ANNUAL THROUGHPUT**

<b>Operating Type:</b>	
<b>Material:</b>	<b>Material State:</b>
<b>Throughput and Units:</b>	

**FUEL PARAMETERS**

Fuel Parameter Content	
<b>Sulfur:</b>	no entry
<b>Ash:</b>	no entry
<b>Heat:</b>	no entry

**OPERATING SCHEDULE**

Winter %	25 %	Hours/Day	24.0	Comments: The Waste Treatment Plant (WTP) Effluent Management Facility (EMF) evaporates the secondary radioactive liquid waste streams from the LAW facility.
Spring %	25 %	Days/Week	7.0	
Summer %	25 %	Weeks/Year	52	
Fall %	25 %	Hours/Year	8,736	

*sum of quarters must be 100%*

**RELEASE POINT APPORTIONMENT**

RP ID	Description	Ave Emissions (%)
44	Release Point for Unit 44 - WTP EMF, 200 Area	100%

**EMISSIONS**

<b>U.S. Dept of Energy M-005-0009</b> <b>Unit ID: 44 Process ID: 01</b>	
Calculation Method: none entered	
Emission Factor:	Emission Factor Desc: none entered
Comments: none entered	

END

**APPENDIX B:**  
**Washington Emissions Inventory Reporting System**  
**Emission Summary**

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## Dept. of Ecology Nuclear Waste Section

U.S. Dept of Energy  
Richland

M-005-0009

Operating

## Emission Summary

2025

Emissions Units and Processes	TSP	PM10	PM2.5	SO2	NOx	VOC	CO	NH3	IEU?
Emissions Unit 22, Tank Farm Exhausters, 200 E Composite									
Process 01, SCC 39999999	0.00	0.00	0.00	0.00	0.00	0.13	0.00	2.06	NO
Emissions Unit 23, Tank Farm Exhausters, 200 W Composite									
Process 01, SCC 39999999	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.14	NO
Emissions Unit 24, 242-A Evaporator, 200 East Area									
Process 01, SCC 39999999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	NO
Emissions Unit 25, 200 Area Effluent Treat, 200 E Area									
Process 01, SCC 39999999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NO
Emissions Unit 26, ESPC Dist. Oil Blrs, 200 Area Compos.									
Process 01, SCC 10200501	0.25	0.19	0.05	0.03	2.52	0.22	1.19	0.10	NO
Emissions Unit 27, ESPC Nat Gas Blrs, 300 Area Compos.									
Process 01, SCC 10200602	0.24	0.24	0.24	0.01	0.76	0.26	4.42	0.00	NO
Emissions Unit 28, CWC Diffuse and Fugitive, 200 W Area									
Process 01, SCC 39999999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NO
Emissions Unit 30, T Plant Point Source and Fugitive, 200 W Area									
Process 01, SCC 39999999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NO
Emissions Unit 31, WRAP Point Source & Fugitive, 200 W Area									
Process 01, SCC 39999999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NO
Emissions Unit 32, Fuel Dispensing, Evaporative Losses, 200 Area									
Process 01, SCC 40400402	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	NO
Emissions Unit 35, Fuel Dispensing, Evaporative Losses, WTP Construction Site									
Process 01, SCC 39090011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	YES
Process 02, SCC 39090011									YES
Emissions Unit 36, WTP heaters and dehumidifiers									
Process 01, SCC 10500205									NO
Process 02, SCC 10500210	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	NO
Emissions Unit 37, Sitewide Composite Emissions from Diesel Fuel Combustion									
Process 01, SCC 20200401	0.28	0.27	0.26	0.23	4.67	0.31	1.05	0.00	NO
Emissions Unit 39, Site-wide Composite from Propane Fuel Combustion									
Process 01, SCC 20201001	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	NO
Emissions Unit 40, WTP Standby Diesel Generator									
Process 01, SCC 20100102	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	NO
Emissions Unit 41, WTP Steam Plant Boilers, 200 Area									

*Dept. of Ecology Nuclear Waste Section*

**U.S. Dept of Energy**  
Richland

M-005-0009

Operating

**Emission Summary**

**2025**

Emissions Units and Processes	TSP	PM10	PM2.5	SO2	NOx	VOC	CO	NH3	IEU?
Process 01, SCC 10200506	3.00	3.00	0.00	0.00	13.00	4.00	10.00	0.00	NO
Emissions Unit 42, WTP LAW, 200 Area									
Process 01, SCC 39999999					1.00			6.00	NO
Emissions Unit 43, WTP LAB, 200 Area									
Process 01, SCC 39999999									NO
Emissions Unit 44, WTP EMF									
Process 01, SCC 39999999									NO
<b>Total Emissions (in tons)</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>24</b>	<b>5</b>	<b>17</b>	<b>8</b>	
<b>Total Fee Eligible Emissions</b>	<b>4</b>			<b>-</b>	<b>24</b>	<b>5</b>			

**APPENDIX C:**  
**Washington Emissions Inventory Reporting System**  
**Electronic submission Cover Letter**

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# Washington Department of Ecology Electronic Submission Cover Letter



FACILITY\_SUMMARY\_eFORM 3/9/2026 12:42:41 PM

Company Name	Signer Name	System Name
U.S. Department of Energy	Alex E. Teimouri	WEIRS

### Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for U.S. Department of Energy	Copy of Record U.S.DepartmentofEnergy Monday March 9 2026

### Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

If I am a representative of a major source, I further certify: I am the responsible official as defined in WAC 173-401-200 for this facility. I reviewed the content or meaning of the submittal before signing it. Based on information and belief formed after reasonable inquiry, the statements and information in the submittal are true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

For Ecology Use Only



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+962tIqITWVQEsziHPlzck4C3IK1QyzYWMLQ7WOfno2EtLI/YV74UCp7Sn6Srltk7w5BiAaLj0=

**APPENDIX D:**  
**Hanford Site Air Operating Permit Renewal 3 Attachment 1**  
**Discharge Points**

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## Hanford Site Air Operating Permit Renewal 3 Attachment 1 Discharge Points

Discharge Point	Discharge Point Description	Operating Contractor	CLOSED?	AEI Report Emission Point Identification
1.4.01	234-5Z, Boiler 1,2 and 3(>5mmBTU/hr-FO)	N/A	Yes, - 20-ESQ-0011	26
1.4.02	242-A, Boiler 1, 2, and 3 (>5 mmBTU/hr – FO)	H2C		26
1.4.03	318 Boiler (<5 mmBTU/hr–NG)	PNNL		27
1.4.04	Reserved	N/A		N/A
1.4.05	3709A Boiler (<5 mmBTU/hr–NG)	HMIS	Yes - 23-ECD-0033	27
1.4.06	324 Boiler 1 and Boiler 2(>5 mmBTU/hr–NG)	CPCCo	Yes - 23-ECD-0032	27
1.4.07	325 Boiler 1 and Boiler 2(>5 mmBTU/hr–NG)	PNNL		27
1.4.08	331 Boiler 1 and Boiler 2 (<5 mmBTU/hr–NG)	PNNL		27
1.4.09	Portable Boiler (<5 mmBTU/hr–Dual Fuel)	PNNL	Yes - 22-ECD-003782	26, 27
1.4.10	E-225BC 001	CPCCo		37
1.4.11	E-225BG 001	CPCCo		37
1.4.12	Discharge Point: Reserved	N/A		N/A
1.4.13	Reserved	N/A		N/A
1.4.14	CWC	CPCCo		28
1.4.15	Concrete Batch Plant	BNI	Yes - 20-ECD-0042	33
1.4.16	E-282ED 001	HMIS		37
1.4.17	E-282WD 001	HMIS		37
1.4.18	Emergency Diesel Generator: E-3709A-001	HMIS		37
1.4.18	Emergency Diesel Generator: E-325-001	PNNL		37
1.4.18	Emergency Diesel Generator: E-331-001	PNNL		37
1.4.19	P-2025E ETF	H2C		25
1.4.20	P-2706T 001	CPCCo		30
1.4.21	Reserved	N/A		N/A
1.4.22	P-296W004 001	CPCCo		31
1.4.23	P-WTP-001	BNI		N/A
1.4.24	Integrated Disposal Facility	CPCCo		N/A
1.4.25	241-AN and 241-AW Tank Farms Ventilation	H2C		22
1.4.26	200 Area SST Categorical Waste Retrieval	H2C		22
1.4.27	E-85 Fuel Station	HMIS		32
1.4.28	HAMMER Training and Education Facility	HMIS		37
1.4.29	100B-181B/182B	HMIS		37
1.4.30	WTP Heaters & Dehumidifiers	BNI		36
1.4.31	300 Area/339A Emergency Diesel Engine	HMIS	Yes - 20-ESQ-0027	37
1.4.32	241-AP, 241-SY, And 241-AY/AZ Ventilation	H2C		22, 23
1.4.33	Lagoon Treatment System	HMIS		N/A
1.4.34	SST Retrieval Direct Fired Water Heaters	H2C	Yes - 20-ECD-0060	38
1.4.35	Hanford Site Asbestos Landfill	HMIS		N/A
1.4.36	600 Area Gas Distribution	HMIS		32
1.4.37	Reserved	N/A		N/A
1.4.38	100K Water Treatment Plant	CPCCo		37
1.4.39	385 Building	PNNL		37
1.4.40	Reserved	N/A		N/A
1.4.41	Reserved	N/A		N/A
1.4.42	Reserved	N/A		N/A

## Hanford Site Air Operating Permit Renewal 3 Attachment 1 Discharge Points

Discharge Point	Discharge Point Description	Operating Contractor	CLOSED?	AEI Report Emission Point Identification
1.4.43	WTP MHF South-40 Laydown Critical Equipment Storage	BNI	Yes - 22-ECD-000159	37
1.4.44	2720EA	HMIS		39
1.4.45	Rattle Snake Barricade	HMIS		39
1.4.46	Reserved	N/A		N/A
1.4.47	242-A	H2C	Yes - 19-ECD-0057	37
1.4.48	234-5Z	N/A	Yes - 20-ESQ-0010	37
1.4.49	400 Area	CPCCo		37
1.4.50	600 Area Fire Station (Building (609A))	HMIS		39
1.4.51	2721E	HMIS		39
1.4.52	Yakima Barricade	HMIS		39
1.4.53	282-B	CPCCo		37
1.4.54	Reserved	N/A		N/A
1.4.55	Reserved	N/A		N/A
1.4.56	TEDF Pump Station 2 (225E)	H2C	Yes - 19-ECD-0057	37
1.4.57	WTP MHF South-40 Laydown Entry Gate	BNI		37
1.4.58	Reserved	N/A		N/A
1.4.59	Reserved	N/A		N/A
1.4.60	WTP MHF South-40 Laydown Yard East X-Ray	BNI	Yes - 22-ECD-000159	37
1.4.61	WTP Construction Pretreatment Tower Crane	BNI		37
1.4.62	WTP Construction Site HLW Tower Crane	BNI		37
1.4.63	WTP Construction Site Building T-14	BNI	Yes - 23-ECD-001970	37
1.4.64	Light Towers Waste Transfer Corridor East	H2C		37
1.4.65	Light Towers Waste Transfer Corridor West	H2C		37
1.4.66	Light Towers C Farm Trailer Area	H2C		37
1.4.67	Light Towers C Farm	H2C		37
1.4.68	AY/AZ Farm DMI-LT Light Tower	H2C		37
1.4.69	Reserved	N/A		N/A
1.4.70	Light Towers AN Farm	H2C		37
1.4.71	200E Effluent Treatment Facility Engine	H2C	Yes - 19-ECD-0057	37
1.4.72	251W Substation Emergency Backup Engine	HMIS		39
1.4.73	WTP MHF South-40 Laydown Yard Labor Tent	BNI		37
1.4.74	WTP MHF South-40 Laydown Yard Warm-up/Cool Tent	BNI	Yes - 22-ECD-000159	37
1.4.75	400 Area Water Treatment System Engines	CPCCo		37
1.4.76	CWC Facility Existing Light Plant Engines	CPCCo	Yes - 23-ECD-0031	37
1.4.77	CWC Facility New Light Plant Engines	CPCCo	Yes - 23-ECD-0031	37
1.4.78	200W SWOC Administrative Offices Engines	CPCCo	Yes - 23-ECD-0031	37
1.4.79	222S Engine for Direct Drive Ventilation	HLMI		37
1.4.80	Effluent Management Facility	BNI		N/A

BNI = Bechtel National Incorporated

CWC = Central Waste Complex

CPCCo = Central Plateau Cleanup Company

H2C = Hanford Tank Waste Operations and Closure

HLMI = Hanford Laboratory Management and Integration

HLW = High Level Waste

HMIS= Hanford Mission Integration Solutions

MHF = Material Handling Facility

mmBTU = Metric million British thermal unit

PNNL = Pacific Northwest National Laboratory

SST = Single Shell Tank

SWOC = Solid Waste Operations Complex

TEDF = Treated Effluent Disposal Facility

WTP = Waste Treatment Plant