

## LA-UR-18-22329

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## memorandum

*Environmental Protection & Compliance Division  
Los Alamos National Laboratory*

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*From/MS:* Walt Whetham, EPC-CP, MS J978 *WW*  
*Phone:* 505-665-8885  
*Symbol:* EPC-DO: 18-126  
*Date:* **MAR 27 2018**

**Subject: 2017 Emissions Inventory Electronic Submittal**

Los Alamos National Laboratory (LANL) submitted their 2017 Emissions Inventory Report to New Mexico Environmental Department (NMED) via online reporting tool, AEIR. This report is required by Title 20, Chapter 2, Part 73 of the New Mexico Administrative Code (20.2.73 NMAC), Notice of Intent and Emissions Inventory Requirements. The report was submitted on March 27, 2018, and meets New Mexico Environmental Department's deadline of April 1<sup>st</sup>.

Should you have any questions or comments regarding the information provided in this report, please contact Steve Story at (505) 665-2169 or [story@lanl.gov](mailto:story@lanl.gov).

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EPC-CP Emissions Inventory File, J978

# **Enclosure 1**

2017 Emissions Inventory Report

EPC-DO: 18-126

Electronic Submittal

Date: MAR 27 2018



## Subject Item List

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### Facility Annual Emissions - Subject Item List

**Agency ID:** 856

**Facility Name:** Los Alamos National Security, LLC

**Organization Name:** U.S. Department of Energy National Nuclear Security Administration

**Submittal Status:** 2017 Submittal (In Process)

**Subject Item/Equipment (51 Subject Items)**

Type	ID	Designation	Description	Status	Complete
<input checked="" type="radio"/> Federal Agency	AI -856	2195R71	Los Alamos National Security, LLC	Active 06/12/17	
<input checked="" type="radio"/> Asphalt Drum/Burner	EQPT-116	TA-60-BDM	Asphalt Plant Dryer - Natural Gas	Active 07/19/05	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Beryllium Work	ACT -2	TA-35-213	Beryllium Activity-Be Target Fabrication Facility - Machining TA-35-213	Active 05/10/00	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Beryllium Work	ACT -3	TA-3-141	Beryllium Activity-Be Test Facility - Machining TA-3-141	Active 05/10/00	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Beryllium Work	ACT -6	TA-55-PF4 (a)	Beryllium Activity-Plutonium Facility Beryllium machining, weld cutting / dressing and metallography	Active 04/14/06	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Beryllium Work	ACT -41	TA-3-66	Beryllium Activity-Sigma Facility-electroplating/metallography	Active 05/24/10	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-11	TA-53-365-BHW-1	Boiler TA-53-365-BHW-1	Active 05/31/01	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-12	TA-53-365-BHW-2	Boiler TA-53-365-BHW-2	Active 05/31/01	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-24	TA-3-22-1 (gas)	Power Plant Boiler (pph, Natural Gas)	Active 03/05/09	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-25	TA-3-22-2 (gas)	Power Plant Boiler (pph, Natural Gas)	Active 03/05/09	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-26	TA-3-22-3 (gas)	Power Plant Boiler (pph, Natural Gas)	Active 03/05/09	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-29	TA-55-6-BHW-1	Sellers Boiler TA-55-6-BHW-1	Active 12/17/01	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-30	TA-55-6-BHW-2	Sellers Boiler TA-55-6-BHW-2	Active 12/17/01	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-53	TA-16-1484-BS-2	Low NOx Boiler TA-16-1484-BS-2	Active 11/27/96	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-90	RLUOB-BHW-1 (gas)	Boiler-CMRR-BHW-1	Active 03/01/05	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-104	RLUOB-BHW-2 (gas)	Boiler-CMRR-BHW-2	Active 03/01/05	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-105	RLUOB-BHW-3 (gas)	Boiler-CMRR-BHW-3	Active 03/01/05	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-106	RLUOB-BHW-4 (gas)	Boiler-CMRR-BHW-4	Active 03/01/05	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-107	B-5	Boiler-CMRR	Active 03/01/05	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-134	TA-16-1484-BS-1	Low NOx Boiler TA-16-1484-BS-1	Active 11/27/96	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-137	TA-3-22-2	Power Plant Boiler (pph, No. 2 fuel oil)	Active 03/05/09	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-138	TA-3-22-3	Power Plant Boiler (pph, No. 2 fuel oil)	Active 03/05/09	<input checked="" type="checkbox"/>
<input checked="" type="radio"/> Boiler	EQPT-141	TA-3-22-1	Power Plant Boiler (pph, No. 2 fuel oil)	Active 03/05/09	<input checked="" type="checkbox"/>

<input type="radio"/>	Boiler	EQPT-144	Boiler combined emissions	TA-16-1484-Bs-1,2; TA -53-365-BHW-1,2; TA-55-6-BHW-1,2; RLUOB-BHW-1,2,3,4	Active 03/05/09	<input checked="" type="checkbox"/>
<input type="radio"/>	Boiler	EQPT-149	RLUOB-BHW-1 (oil)	Boiler-CMRR-BHW-1	Active 03/01/05	<input checked="" type="checkbox"/>
<input type="radio"/>	Boiler	EQPT-150	RLUOB-BHW-2 (oil)	Boiler-CMRR-BHW-2	Active 03/01/05	<input checked="" type="checkbox"/>
<input type="radio"/>	Boiler	EQPT-151	RLUOB-BHW-3 (oil)	Boiler-CMRR-BHW-3	Active 03/01/05	<input checked="" type="checkbox"/>
<input type="radio"/>	Boiler	EQPT-152	RLUOB-BHW-4 (oil)	Boiler-CMRR-BHW-4	Active 03/01/05	<input checked="" type="checkbox"/>
<input type="radio"/>	Fugitives	RPNT-34	Facilitywide Open Burning	Fugitives - Open Burning	Active 02/27/15	<input checked="" type="checkbox"/>
<input type="radio"/>	Fugitives	RPNT-35	TA-60-EVAP-1	Evaporative Sprayer for basin water	Active 02/03/17	<input checked="" type="checkbox"/>
<input type="radio"/>	Fugitives	RPNT-36	TA-60-EVAP-2	Evaporative Sprayer for basin water	Active 02/03/17	<input checked="" type="checkbox"/>
<input type="radio"/>	Fugitives	RPNT-37	TA-60-EVAP-3	Evaporative Sprayer for basin water	Active 02/03/17	<input checked="" type="checkbox"/>
<input type="radio"/>	Fugitives	RPNT-38	TA-60-EVAP-4	Evaporative Sprayer for basin water	Active 02/03/17	<input checked="" type="checkbox"/>
<input type="radio"/>	Fugitives	RPNT-39	TA-60-EVAP-5	Evaporative Sprayer for basin water	Active 02/03/17	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-96	Standby-Generators	Diesel Generators	Active 03/01/05	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-119	TA-33-G-2	Kohler Diesel Generator TA-33, TA-36, TA-39	Active 04/22/08	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-120	TA-33-G-3	Kohler Diesel Generator TA-33, TA-36, TA-39	Active 09/18/06	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-128	RLUOB-GEN 1	Cummins Diesel Powered Generator and Engine - CMRR	Active 12/11/07	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-135	TA-33-G-4	Caterpillar Diesel Generator TA-33, TA-36, TA-39	Active 04/22/08	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-143	TA-55-GEN-3	CI-RICE Stationary Generator - Caterpillar 1335 hp	Active 11/30/10	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-146	TA-33-G-1P	Cummins Portable Diesel Generator	Active 12/12/13	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-147	TA-48-GEN-1	Cummins Diesel Powered Generator and Engine	Active 02/27/15	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-153	RLUOB-GEN 2	Cummins Diesel Powered Generator and Engine - CMRR	Active 12/11/07	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-154	RLUOB-GEN 3	Cummins Diesel Powered Generator and Engine - CMRR	Active 12/11/07	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-155	TA-55-GEN-2	CI-RICE Stationary Generator - Whisper Watt 40.2 hp	Active 02/27/15	<input checked="" type="checkbox"/>
<input type="radio"/>	Internal combustion engine	EQPT-156	TA-55-GEN-1	CI-RICE Stationary Generator - Whisper Watt 40.2 hp	Active 02/27/15	<input checked="" type="checkbox"/>
<input type="radio"/>	Parts Washer	EQPT-21	TA-55-DG-1	Degreaser - Ultrasonic Cold Batch TA-55-4	Active 05/31/01	<input checked="" type="checkbox"/>
<input type="radio"/>	Research/Testing	ACT -7	LANL-FW-CHEM	R & D Activities - Labwide (031)	Active 05/31/01	<input checked="" type="checkbox"/>
<input type="radio"/>	Research/Testing	ACT -42	RLUOB-CHEM	Chemical Usage, Bldg. TA-55-400 (lab portion of RLUOB Bldg.)	Active 05/31/01	<input checked="" type="checkbox"/>
<input type="radio"/>	Shredder	EQPT-89	TA-52-11	Data Disintegrator/Industrial Shredder	Active 10/22/03	<input checked="" type="checkbox"/>
<input type="radio"/>	Turbine	EQPT-112	TA-3-22-CT-1	Combustion Turbine	Active 07/29/06	<input checked="" type="checkbox"/>

Add an unpermitted source for EPA GHG calculations

Detail	Emissions	Print	Export	Total Emissions	Review for Submittal
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**Submittal Comments**

2000 character maximum

Save Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-116

Designation: TA-60-BDM

Description: Asphalt Plant Dryer - Natural Gas

Type: Asphalt Drum/Burner

SCC: Industrial Processes, Mineral Products, Asphalt Concrete, Drum Mix Plant: Rotary Drum Dryer / Mixer, Natural Gas - Fired

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Natural Gas	
Input Materials Processed:	Asphalt (INPUT)	
Materials Consumed:	2.27	MM SCF
Fuel Heating Value:	1020.0	MM BTU/MM SCF
Percent Sulfur of Fuel:	0.001	percent
Percent Ash of Fuel:	0.0	percent

Operating Detail

	Value
Operating Time in Hours per Day:	8
Operating Time in Days per Week:	5
Operating Time in Weeks per Year:	26
Operating Time in Hours per Year:	67
Percent of Operation During Winter:	10
Percent of Operation During Spring:	30
Percent of Operation During Summer:	30
Percent of Operation During Fall:	30

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.155	tons/y	EPA emission factors (e.g., AP-42)
Ethylbenzene:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Lead:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.004	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.002	tons/y	Manufacturer Specification
Particulate Matter (2.5 microns or less):	0.002	tons/y	Manufacturer Specification

<b>Particulate Matter (total suspended):</b>	0.003	tons/y	Manufacturer Specification
<b>Sulfur Dioxide:</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)

*Subject Item Comments*

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: ACT -2

Designation: TA-35-213

Beryllium Activity-Be Target

Description: Fabrication Facility - Machining  
TA-35-213

Type: Beryllium Work

SCC: Industrial Processes, Fabricated  
Metal Products, Machining  
Operations, Specify Material\*\*

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Input Materials Processed: Metal (INPUT)

Operating Detail

	Value
Operating Time in Hours per Day:	5
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	1820
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Beryllium:	0.0	tons/y	Estimate
Particulate Matter (total suspended):	0.0	tons/y	Estimate

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: ACT -3

Designation: TA-3-141

Description: Beryllium Activity-Be Test  
Facility - Machining TA-3-141

Type: Beryllium Work

SCC: Industrial Processes, Fabricated  
Metal Products, Machining  
Operations, Specify Material\*\*

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Input Materials Processed: Metal (INPUT)

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Beryllium:	0.0	tons/y	Field measurement
Particulate Matter (total suspended):	0.0	tons/y	Field measurement

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: ACT -6

Designation: TA-55-PF4 (a)

Description: Beryllium Activity-Plutonium  
Facility Beryllium machining,  
weld cutting / dressing and  
metallography

Type: Beryllium Work

SCC: Industrial Processes, Fabricated  
Metal Products, Machining  
Operations, Specify Material\*\*

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Input Materials Processed: Metal (INPUT)

Operating Detail

	Value
Operating Time in Hours per Day:	5
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	1820
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Beryllium:	0.0	tons/y	Estimate

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: ACT -41  
Designation: TA-3-66  
Beryllium Activity-Sigma  
Description: Facility-  
electroplating/metallography  
Type: Beryllium Work  
SCC: Industrial Processes, Fabricated  
Metal Products, Abrasive  
Cleaning of Metal Parts,  
Polishing  
GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Input Materials Processed: Metal (INPUT)

Operating Detail

	Value
Operating Time in Hours per Day:	8
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Beryllium:	0.0	tons/y	Estimate

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-11

Designation: TA-53-365-BHW-1

Description: Boiler TA-53-365-BHW-1

Type: Boiler

SCC: External Combustion Boilers,  
Electric Generation, Natural Gas,  
Boilers < 100 Million Btu/hr  
except Tangential

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	9.502	MM SCF
Fuel Heating Value:	1021.0	MM BTU/MM SCF
Percent Sulfur of Fuel:	0.001	percent
Percent Ash of Fuel:	0.0	percent
Percent Carbon Content:	65.0	percent

Operating Detail

	Value
Operating Time in Hours per Day:	15
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	33
Operating Time in Hours per Year:	3465
Percent of Operation During Winter:	40
Percent of Operation During Spring:	20
Percent of Operation During Summer:	0
Percent of Operation During Fall:	40

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.399	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.009	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.475	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.036	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.036	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.036	tons/y	EPA emission factors (e.g., AP-42)

<b>Sulfur Dioxide:</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.026	tons/y	EPA emission factors (e.g., AP-42)
<b><i>Subject Item Comments</i></b>			

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**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856

**Facility Name:** Los Alamos National Security, LLC

**Organization Name:** U.S. Department of Energy National Nuclear Security Administration

**Submittal Status:** 2017 Submittal (In Process)

**Subject Item ID:** EQPT-12

**Designation:** TA-53-365-BHW-2

**Description:** Boiler TA-53-365-BHW-2

**Type:** Boiler

**SCC:** External Combustion Boilers,  
Electric Generation, Natural Gas,  
Boilers < 100 Million Btu/hr  
except Tangential

**GHG Reporting:** Reports GHG to EPA

**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	9.502	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	15
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	33
<b>Operating Time in Hours per Year:</b>	3465
<b>Percent of Operation During Winter:</b>	40
<b>Percent of Operation During Spring:</b>	20
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	40

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.399	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.009	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.475	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.036	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.036	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.036	tons/y	EPA emission factors (e.g., AP-42)

<b>Sulfur Dioxide:</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.026	tons/y	EPA emission factors (e.g., AP-42)
<b><i>Subject Item Comments</i></b>			

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-24

Designation: TA-3-22-1 (gas)

Description: Power Plant Boiler (pph, Natural Gas)

Type: Boiler

SCC: External Combustion Boilers, Electric Generation, Natural Gas, Boilers > 100 Million Btu/hr except Tangential

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	53.129	MM SCF
Fuel Heating Value:	1021.0	MM BTU/MM SCF
Percent Sulfur of Fuel:	0.001	percent
Percent Ash of Fuel:	0.0	percent
Percent Carbon Content:	65.0	percent

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	1.063	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.002	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.048	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	1.541	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.202	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.202	tons/y	EPA emission factors (e.g., AP-42)

<b>Particulate Matter (total suspended):</b>	0.202	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.016	tons/y	EPA emission factors (e.g., AP-42)
<b>Toluene; (Methyl benzene):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.146	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

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**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856**Facility Name:** Los Alamos National Security, LLC**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2017 Submittal (In Process)**Subject Item ID:** EQPT-25**Designation:** TA-3-22-2 (gas)**Description:** Power Plant Boiler (pph, Natural Gas)**Type:** Boiler**SCC:** External Combustion Boilers,  
Electric Generation, Natural Gas,  
Boilers > 100 Million Btu/hr  
except Tangential**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	184.56	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	24
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	8760
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	3.691	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.007	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.166	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	5.352	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.701	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.701	tons/y	EPA emission factors (e.g., AP-42)

<b>Particulate Matter (total suspended):</b>	0.701	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.055	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.508	tons/y	EPA emission factors (e.g., AP-42)

*Subject Item Comments*

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-26

Designation: TA-3-22-3 (gas)

Description: Power Plant Boiler (pph, Natural Gas)

Type: Boiler

SCC: External Combustion Boilers, Electric Generation, Natural Gas, Boilers > 100 Million Btu/hr except Tangential

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	101.089	MM SCF
Fuel Heating Value:	1021.0	MM BTU/MM SCF
Percent Sulfur of Fuel:	0.001	percent
Percent Ash of Fuel:	0.0	percent
Percent Carbon Content:	65.0	percent

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	2.022	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.004	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.091	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	2.932	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.384	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.384	tons/y	EPA emission factors (e.g., AP-42)

<b>Particulate Matter (total suspended):</b>	0.384	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.03	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.278	tons/y	EPA emission factors (e.g., AP-42)

***Subject Item Comments***

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**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856**Facility Name:** Los Alamos National Security, LLC**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2017 Submittal (In Process)**Subject Item ID:** EQPT-29**Designation:** TA-55-6-BHW-1**Description:** Sellers Boiler TA-55-6-BHW-1**Type:** Boiler**SCC:** External Combustion Boilers,  
Electric Generation, Natural Gas,  
Boilers < 100 Million Btu/hr  
except Tangential**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	17.313	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent

**Operating Detail**

	<b>Value</b>
<b>Operating Time in Hours per Day:</b>	15
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	33
<b>Operating Time in Hours per Year:</b>	3465
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	0.331	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.016	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	1.195	tons/y	Actual stack test
<b>Particulate Matter (10 microns or less):</b>	0.123	tons/y	Manufacturer Specification
<b>Particulate Matter (2.5 microns or less):</b>	0.123	tons/y	Manufacturer Specification
<b>Particulate Matter (total suspended):</b>	0.123	tons/y	Manufacturer Specification
<b>Sulfur Dioxide:</b>	0.005	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.052	tons/y	Manufacturer Specification

**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856**Facility Name:** Los Alamos National Security, LLC**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2017 Submittal (In Process)**Subject Item ID:** EQPT-30**Designation:** TA-55-6-BHW-2**Description:** Sellers Boiler TA-55-6-BHW-2**Type:** Boiler**SCC:** External Combustion Boilers,  
Electric Generation, Natural Gas,  
Boilers < 100 Million Btu/hr  
except Tangential**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	4.813	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

	<b>Value</b>
<b>Operating Time in Hours per Day:</b>	15
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	33
<b>Operating Time in Hours per Year:</b>	3465
<b>Percent of Operation During Winter:</b>	40
<b>Percent of Operation During Spring:</b>	10
<b>Percent of Operation During Summer:</b>	10
<b>Percent of Operation During Fall:</b>	40

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	0.092	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.004	tons/y	EPA emission factors (e.g., AP-42)
<b>Lead:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.332	tons/y	Actual stack test
<b>Particulate Matter (10 microns or less):</b>	0.034	tons/y	Manufacturer Specification
<b>Particulate Matter (2.5 microns or less):</b>	0.034	tons/y	Manufacturer Specification
<b>Particulate Matter (total suspended):</b>	0.034	tons/y	Manufacturer Specification



<b>Sulfur Dioxide:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.014	tons/y	Manufacturer Specification

*Subject Item Comments*

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**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856

**Facility Name:** Los Alamos National Security, LLC

**Organization Name:** U.S. Department of Energy National Nuclear Security Administration

**Submittal Status:** 2017 Submittal (In Process)

**Subject Item ID:** EQPT-53

**Designation:** TA-16-1484-BS-2

**Description:** Low NOx Boiler  
TA-16-1484-BS-2

**Type:** Boiler

**SCC:** External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr

**GHG Reporting:** Reports GHG to EPA

**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	8.481	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Ash of Fuel:</b>	0.0	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	24
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	8760
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.157	tons/y	Design calculation
<b>Hexane:</b>	0.008	tons/y	Design calculation
<b>Lead:</b>	0.0	tons/y	Design calculation
<b>Nitrogen Dioxide:</b>	0.157	tons/y	Design calculation
<b>Particulate Matter (10 microns or less):</b>	0.032	tons/y	Design calculation
<b>Particulate Matter (2.5 microns or less):</b>	0.032	tons/y	Design calculation
<b>Particulate Matter (total suspended):</b>	0.032	tons/y	Design calculation
<b>Sulfur Dioxide:</b>	0.003	tons/y	Design calculation
<b>Volatile Organic Compounds (VOC):</b>	0.023	tons/y	Design calculation

## Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

**Agency ID:** 856

**Facility Name:** Los Alamos National Security, LLC

**Organization Name:** U.S. Department of Energy National Nuclear Security Administration

**Submittal Status:** 2017 Submittal (In Process)

**Subject Item ID:** EQPT-90

**Designation:** RLUOB-BHW-1 (gas)

**Description:** Boiler-CMRR-BHW-1

**Type:** Boiler

**SCC:** External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr

**GHG Reporting:** Reports GHG to EPA

### Supplemental Parameters

	Amount	Unit of Measure
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	0.767	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

### Operating Detail

	Value
<b>Operating Time in Hours per Day:</b>	24
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	8760
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

### Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.015	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.011	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.01	tons/y	EPA emission factors (e.g., AP-42)

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-104

Designation: RLUOB-BHW-2 (gas)

Description: Boiler-CMRR-BHW-2

Type: Boiler

SCC: External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	0.767	MM SCF
Fuel Heating Value:	1021.0	MM BTU/MM SCF
Percent Sulfur of Fuel:	0.001	percent
Percent Ash of Fuel:	0.0	percent
Percent Carbon Content:	65.0	percent

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.015	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.011	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.002	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.002	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.002	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.01	tons/y	EPA emission factors (e.g., AP-42)

**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856**Facility Name:** Los Alamos National Security, LLC**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2017 Submittal (In Process)**Subject Item ID:** EQPT-105**Designation:** RLUOB-BHW-3 (gas)**Description:** Boiler-CMRR-BHW-3**Type:** Boiler**SCC:** External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	0.767	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	24
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	8760
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.015	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.011	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.01	tons/y	EPA emission factors (e.g., AP-42)

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-106

Designation: RLUOB-BHW-4 (gas)

Description: Boiler-CMRR-BHW-4

Type: Boiler

SCC: External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	0.0	MM SCF
Fuel Heating Value:	0.0	MM BTU/MM SCF
Percent Sulfur of Fuel:	0.0	percent
Percent Ash of Fuel:	0.0	percent
Percent Carbon Content:	0.0	percent

Operating Detail

	Value
Operating Time in Hours per Day:	0
Operating Time in Days per Week:	0
Operating Time in Weeks per Year:	0
Operating Time in Hours per Year:	0
Percent of Operation During Winter:	0
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.0	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

This unit has not been built.

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-107

Designation: B-5

Description: Boiler-CMRR

Type: Boiler

SCC: External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	0.0	MM SCF
Fuel Heating Value:	0.0	MM BTU/MM SCF
Percent Sulfur of Fuel:	0.0	percent
Percent Ash of Fuel:	0.0	percent
Percent Carbon Content:	0.0	percent

Operating Detail

	Value
Operating Time in Hours per Day:	0
Operating Time in Days per Week:	0
Operating Time in Weeks per Year:	0
Operating Time in Hours per Year:	0
Percent of Operation During Winter:	0
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.0	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

This unit has not been built.



**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856

**Facility Name:** Los Alamos National Security, LLC

**Organization Name:** U.S. Department of Energy National Nuclear Security Administration

**Submittal Status:** 2017 Submittal (In Process)

**Subject Item ID:** EQPT-134

**Designation:** TA-16-1484-BS-1

**Description:** Low NOx Boiler  
TA-16-1484-BS-1

**Type:** Boiler

**SCC:** External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr

**GHG Reporting:** Reports GHG to EPA

**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	8.481	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	24
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	8760
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.157	tons/y	Design calculation
<b>Hexane:</b>	0.008	tons/y	Design calculation
<b>Lead:</b>	0.0	tons/y	Design calculation
<b>Nitrogen Dioxide:</b>	0.157	tons/y	Design calculation
<b>Particulate Matter (10 microns or less):</b>	0.032	tons/y	Design calculation
<b>Particulate Matter (2.5 microns or less):</b>	0.032	tons/y	Design calculation
<b>Particulate Matter (total suspended):</b>	0.032	tons/y	Design calculation

<b>Sulfur Dioxide:</b>	0.003	tons/y	Design calculation
<b>Volatile Organic Compounds (VOC):</b>	0.023	tons/y	Design calculation

*Subject Item Comments*

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-137

Designation: TA-3-22-2

Description: Power Plant Boiler (pph, No. 2 fuel oil)

Type: Boiler

SCC: External Combustion Boilers, Electric Generation, Distillate Oil, Grades 1 and 2 Oil

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Diesel	
Materials Consumed:	0.0	gal
Fuel Heating Value:	138.0	MM BTU/M gal
Percent Sulfur of Fuel:	0.05	percent

Operating Detail

	Value
Operating Time in Hours per Day:	0
Operating Time in Days per Week:	0
Operating Time in Weeks per Year:	0
Operating Time in Hours per Year:	0
Percent of Operation During Winter:	0
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.0	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

This unit did not run on diesel in 2017.

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-138

Designation: TA-3-22-3

Description: Power Plant Boiler (pph, No. 2 fuel oil)

Type: Boiler

SCC: External Combustion Boilers, Electric Generation, Distillate Oil, Grades 1 and 2 Oil

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Diesel	
Materials Consumed:	1469.0	gal
Fuel Heating Value:	138.0	MM BTU/M gal
Percent Sulfur of Fuel:	0.05	percent

Operating Detail

	Value
Operating Time in Hours per Day:	8
Operating Time in Days per Week:	2
Operating Time in Weeks per Year:	5
Operating Time in Hours per Year:	80
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.004	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.006	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.002	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.001	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.002	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.005	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.0	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-141

Designation: TA-3-22-1

Description: Power Plant Boiler (pph, No. 2 fuel oil)

Type: Boiler

SCC: External Combustion Boilers, Electric Generation, Natural Gas, Boilers > 100 Million Btu/hr except Tangential

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Diesel	
Materials Consumed:	0.0	gal
Fuel Heating Value:	138.0	MM BTU/M gal

Operating Detail

	Value
Operating Time in Hours per Day:	0
Operating Time in Days per Week:	0
Operating Time in Weeks per Year:	0
Operating Time in Hours per Year:	0
Percent of Operation During Winter:	0
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.0	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

This unit did not run on diesel in 2017.

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-144

Designation: Boiler combined emissions

TA-16-1484-Bs-1,2; TA

Description: -53-365-BHW-1,2; TA-55-6-BHW-1,2; RLUOB-BHW-1,2,3,4

Type: Boiler

SCC: External Combustion Boilers, Electric Generation, Natural Gas, Boilers > 100 Million Btu/hr except Tangential

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	0.0	MM SCF
Fuel Heating Value:	0.0	MM BTU/MM SCF
Percent Sulfur of Fuel:	0.0	percent
Percent Ash of Fuel:	0.0	percent
Percent Carbon Content:	0.0	percent

Operating Detail

	Value
Operating Time in Hours per Day:	0
Operating Time in Days per Week:	0
Operating Time in Weeks per Year:	0
Operating Time in Hours per Year:	0
Percent of Operation During Winter:	0
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)

**Volatile Organic Compounds (VOC):**    0.0    tons/y    EPA emission factors (e.g., AP-42)

***Subject Item Comments***

This Facility ID represents the total from the two TA-16 boilers, the two TA-53 boilers, the two TA-55 boilers, and the four RLUOB boilers. However, these emissions are already captured in other facility IDs. In order to avoid counting the emissions twice, NMED has asked us to enter zeros for this Facility ID.

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**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856

**Facility Name:** Los Alamos National Security, LLC

**Organization Name:** U.S. Department of Energy National Nuclear Security Administration

**Submittal Status:** 2017 Submittal (In Process)

**Subject Item ID:** EQPT-149

**Designation:** RLUOB-BHW-1 (oil)

**Description:** Boiler-CMRR-BHW-1

**Type:** Boiler

**SCC:** External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr

**GHG Reporting:** Reports GHG to EPA

**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Diesel	
<b>Materials Consumed:</b>	0.0	gal
<b>Fuel Heating Value:</b>	0.0	MM BTU/M gal

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	0
<b>Operating Time in Days per Week:</b>	0
<b>Operating Time in Weeks per Year:</b>	0
<b>Operating Time in Hours per Year:</b>	0
<b>Percent of Operation During Winter:</b>	0
<b>Percent of Operation During Spring:</b>	0
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	0

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

The RLUOB boilers did not operate on fuel oil in 2017.

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**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856**Facility Name:** Los Alamos National Security, LLC**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2017 Submittal (In Process)**Subject Item ID:** EQPT-150**Designation:** RLUOB-BHW-2 (oil)**Description:** Boiler-CMRR-BHW-2**Type:** Boiler**SCC:** External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Diesel	
<b>Materials Consumed:</b>	0.0	gal
<b>Fuel Heating Value:</b>	0.0	MM BTU/M gal

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	0
<b>Operating Time in Days per Week:</b>	0
<b>Operating Time in Weeks per Year:</b>	0
<b>Operating Time in Hours per Year:</b>	0
<b>Percent of Operation During Winter:</b>	0
<b>Percent of Operation During Spring:</b>	0
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	0

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

The RLUOB boilers did not operate on fuel oil in 2017.

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**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856**Facility Name:** Los Alamos National Security, LLC**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2017 Submittal (In Process)**Subject Item ID:** EQPT-151**Designation:** RLUOB-BHW-3 (oil)**Description:** Boiler-CMRR-BHW-3**Type:** Boiler**SCC:** External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Diesel	
<b>Materials Consumed:</b>	0.0	gal
<b>Fuel Heating Value:</b>	0.0	MM BTU/M gal

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	0
<b>Operating Time in Days per Week:</b>	0
<b>Operating Time in Weeks per Year:</b>	0
<b>Operating Time in Hours per Year:</b>	0
<b>Percent of Operation During Winter:</b>	0
<b>Percent of Operation During Spring:</b>	0
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	0

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

The RLUOB boilers, did not operate on fuel oil in 2017.

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856  
Facility Name: Los Alamos National Security, LLC  
Organization Name: U.S. Department of Energy National Nuclear Security Administration  
Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-152  
Designation: RLUOB-BHW-4 (oil)  
Description: Boiler-CMRR-BHW-4  
Type: Boiler  
SCC: External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr  
GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Diesel	
Materials Consumed:	0.0	gal
Fuel Heating Value:	0.0	MM BTU/M gal

Operating Detail

	Value
Operating Time in Hours per Day:	0
Operating Time in Days per Week:	0
Operating Time in Weeks per Year:	0
Operating Time in Hours per Year:	0
Percent of Operation During Winter:	0
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.0	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

This unit has not been built.

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: RPNT-34  
Designation: Facilitywide Open Burning  
Description: Fugitives - Open Burning  
Type: Fugitives  
SCC: Industrial Processes, Oil and Gas  
Production, Fugitive Emissions,  
Fugitive Emissions  
GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	0
Operating Time in Days per Week:	0
Operating Time in Weeks per Year:	0
Operating Time in Hours per Year:	0
Percent of Operation During Winter:	0
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Individual HAP:	0.0	tons/y	Engineer Calculation
Total HAP:	0.0	tons/y	Engineer Calculation

Subject Item Comments

No opening burning activities took place in 2017.

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: RPNT-35

Designation: TA-60-EVAP-1

Description: Evaporative Sprayer for basin water

Type: Fugitives

SCC: Industrial Processes, Oil and Gas Production, Fugitive Emissions, Fugitive Emissions

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Total HAP:	0.0	tons/y	Design calculation

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: RPNT-36

Designation: TA-60-EVAP-2

Description: Evaporative Sprayer for basin water

Type: Fugitives

SCC: Industrial Processes, Oil and Gas Production, Fugitive Emissions, Fugitive Emissions

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Total HAP:	0.0	tons/y	Design calculation

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: RPNT-37

Designation: TA-60-EVAP-3

Description: Evaporative Sprayer for basin water

Type: Fugitives

SCC: Industrial Processes, Oil and Gas Production, Fugitive Emissions, Fugitive Emissions

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Total HAP:	0.0	tons/y	Design calculation

Subject Item Comments



Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: RPNT-38

Designation: TA-60-EVAP-4

Description: Evaporative Sprayer for basin water

Type: Fugitives

SCC: Industrial Processes, Oil and Gas Production, Fugitive Emissions, Fugitive Emissions

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	0
Operating Time in Days per Week:	0
Operating Time in Weeks per Year:	0
Operating Time in Hours per Year:	0
Percent of Operation During Winter:	0
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Total HAP:	0.0	tons/y	Design calculation

Subject Item Comments

This sprayer has not been installed.

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: RPNT-39

Designation: TA-60-EVAP-5

Description: Evaporative Sprayer for basin water

Type: Fugitives

SCC: Industrial Processes, Oil and Gas Production, Fugitive Emissions, Fugitive Emissions

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	0
Operating Time in Days per Week:	0
Operating Time in Weeks per Year:	0
Operating Time in Hours per Year:	0
Percent of Operation During Winter:	0
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Total HAP:	0.0	tons/y	Design calculation

Subject Item Comments

This sprayer has not been installed.

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856  
Facility Name: Los Alamos National Security, LLC  
Organization Name: U.S. Department of Energy National Nuclear Security Administration  
Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-96  
Designation: Standby-Generators  
Description: Diesel Generators  
Type: Internal combustion engine  
SCC: Internal Combustion Engines,  
Industrial, Natural Gas,  
Reciprocating  
GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Diesel	
Fuel Heating Value:	138.0	MM BTU/M gal

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	1.13	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	4.34	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.2	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.2	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.17	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.21	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856**Facility Name:** Los Alamos National Security, LLC**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2017 Submittal (In Process)**Subject Item ID:** EQPT-119**Designation:** TA-33-G-2**Description:** Kohler Diesel Generator TA-33,  
TA-36, TA-39**Type:** Internal combustion engine**SCC:** Internal Combustion Engines,  
Electric Generation, Distillate Oil  
(Diesel), Reciprocating**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Diesel	
<b>Input Materials Processed:</b>	Diesel (INPUT)	
<b>Materials Consumed:</b>	3.91	gal
<b>Fuel Heating Value:</b>	138.0	MM BTU/M gal
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.01	percent
<b>Percent Carbon Content:</b>	83.0	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	2
<b>Operating Time in Days per Week:</b>	1
<b>Operating Time in Weeks per Year:</b>	2
<b>Operating Time in Hours per Year:</b>	4
<b>Percent of Operation During Winter:</b>	50
<b>Percent of Operation During Spring:</b>	0
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	50

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.0	tons/y	Design calculation
<b>Nitrogen Dioxide:</b>	0.001	tons/y	Design calculation
<b>Particulate Matter (10 microns or less):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856**Facility Name:** Los Alamos National Security, LLC**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2017 Submittal (In Process)**Subject Item ID:** EQPT-120**Designation:** TA-33-G-3**Description:** Kohler Diesel Generator TA-33,  
TA-36, TA-39**Type:** Internal combustion engine**SCC:** Internal Combustion Engines,  
Industrial, Natural Gas,  
Reciprocating**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Diesel	
<b>Input Materials Processed:</b>	Diesel (INPUT)	
<b>Materials Consumed:</b>	2.04	gal
<b>Fuel Heating Value:</b>	138.0	MM BTU/M gal
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.01	percent
<b>Percent Carbon Content:</b>	83.0	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	1
<b>Operating Time in Days per Week:</b>	1
<b>Operating Time in Weeks per Year:</b>	2
<b>Operating Time in Hours per Year:</b>	2
<b>Percent of Operation During Winter:</b>	0
<b>Percent of Operation During Spring:</b>	50
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	50

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.0	tons/y	Design calculation
<b>Nitrogen Dioxide:</b>	0.001	tons/y	Design calculation
<b>Particulate Matter (10 microns or less):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856**Facility Name:** Los Alamos National Security, LLC**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2017 Submittal (In Process)**Subject Item ID:** EQPT-128**Designation:** RLUOB-GEN 1**Description:** Cummins Diesel Powered  
Generator and Engine - CMRR**Type:** Internal combustion engine**SCC:** Internal Combustion Engines,  
Industrial, Distillate Oil (Diesel),  
Reciprocating: Cogeneration**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Diesel	
<b>Materials Consumed:</b>	611.2	gal
<b>Fuel Heating Value:</b>	138.0	MM BTU/M gal

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	24
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	8760
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.123	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.099	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.005	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.005	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.006	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.014	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-135

Designation: TA-33-G-4

Description: Caterpillar Diesel Generator  
TA-33, TA-36, TA-39

Type: Internal combustion engine

SCC: Internal Combustion Engines,  
Industrial, Natural Gas, 4-cycle  
Rich Burn

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Diesel	
Input Materials Processed:	Diesel (INPUT)	
Materials Consumed:	0.0	gal
Fuel Heating Value:	138.0	MM BTU/M gal
Percent Sulfur of Fuel:	0.001	percent
Percent Ash of Fuel:	0.01	percent
Percent Carbon Content:	83.0	percent

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	Design calculation
Nitrogen Dioxide:	0.0	tons/y	Design calculation
Particulate Matter (10 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.0	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856  
Facility Name: Los Alamos National Security, LLC  
Organization Name: U.S. Department of Energy National Nuclear Security Administration  
Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-143  
Designation: TA-55-GEN-3  
Description: CI-RICE Stationary Generator -  
Caterpillar 1335 hp  
Type: Internal combustion engine  
SCC: Internal Combustion Engines,  
Industrial, Natural Gas,  
Reciprocating  
GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	8
Operating Time in Days per Week:	5
Operating Time in Weeks per Year:	20
Operating Time in Hours per Year:	200
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.046	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.209	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.007	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.007	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.004	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.008	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

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Tuesday, March 20, 2018

Agency ID: 856  
Facility Name: Los Alamos National Security, LLC  
Organization Name: U.S. Department of Energy National Nuclear Security Administration  
Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-146  
Designation: TA-33-G-1P  
Description: Cummins Portable Diesel Generator  
Type: Internal combustion engine  
SCC: Internal Combustion Engines, Electric Generation, Distillate Oil (Diesel), Reciprocating  
GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	2
Operating Time in Days per Week:	2
Operating Time in Weeks per Year:	8
Operating Time in Hours per Year:	16
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.004	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.0	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

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Tuesday, March 20, 2018

**Agency ID:** 856  
**Facility Name:** Los Alamos National Security, LLC  
**Organization Name:** U.S. Department of Energy National Nuclear Security Administration  
**Submittal Status:** 2017 Submittal (In Process)

**Subject Item ID:** EQPT-147  
**Designation:** TA-48-GEN-1  
**Description:** Cummins Diesel Powered Generator and Engine  
**Type:** Internal combustion engine  
**SCC:** Internal Combustion Engines, Industrial, Natural Gas, Reciprocating  
**GHG Reporting:** Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Diesel	
Materials Consumed:	0.0	gal
Fuel Heating Value:	138.0	MM BTU/M gal

Operating Detail

	Value
Operating Time in Hours per Day:	0
Operating Time in Days per Week:	0
Operating Time in Weeks per Year:	0
Operating Time in Hours per Year:	0
Percent of Operation During Winter:	0
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
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Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856  
Facility Name: Los Alamos National Security, LLC  
Organization Name: U.S. Department of Energy National Nuclear Security Administration  
Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-153  
Designation: RLUOB-GEN 2  
Description: Cummins Diesel Powered  
Generator and Engine - CMRR  
Type: Internal combustion engine  
SCC: Internal Combustion Engines,  
Industrial, Distillate Oil (Diesel),  
Reciprocating: Cogeneration  
GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Diesel	
Materials Consumed:	797.7	gal
Fuel Heating Value:	138.0	MM BTU/M gal

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.16	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.129	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.006	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.008	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.003	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.018	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856  
Facility Name: Los Alamos National Security, LLC  
Organization Name: U.S. Department of Energy National Nuclear Security Administration  
Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-154  
Designation: RLUOB-GEN 3  
Description: Cummins Diesel Powered  
Generator and Engine - CMRR  
Type: Internal combustion engine  
SCC: Internal Combustion Engines,  
Industrial, Distillate Oil (Diesel),  
Reciprocating: Cogeneration  
GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Diesel	
Materials Consumed:	424.8	gal
Fuel Heating Value:	138.0	MM BTU/M gal

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.085	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.069	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.003	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.004	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.002	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.01	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

**Facility Annual Emissions - Subject Item Submittal Review**

Tuesday, March 20, 2018

**Agency ID:** 856**Facility Name:** Los Alamos National Security, LLC**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2017 Submittal (In Process)**Subject Item ID:** EQPT-155**Designation:** TA-55-GEN-2**Description:** CI-RICE Stationary Generator -  
Whisper Watt 40.2 hp**Type:** Internal combustion engine**SCC:** Internal Combustion Engines,  
Industrial, Natural Gas,  
Reciprocating**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters****Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	0
<b>Operating Time in Days per Week:</b>	0
<b>Operating Time in Weeks per Year:</b>	0
<b>Operating Time in Hours per Year:</b>	0
<b>Percent of Operation During Winter:</b>	0
<b>Percent of Operation During Spring:</b>	0
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	0

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

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Tuesday, March 20, 2018

Agency ID: 856  
Facility Name: Los Alamos National Security, LLC  
Organization Name: U.S. Department of Energy National Nuclear Security Administration  
Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-156  
Designation: TA-55-GEN-1  
Description: CI-RICE Stationary Generator -  
Whisper Watt 40.2 hp  
Type: Internal combustion engine  
SCC: Internal Combustion Engines,  
Industrial, Natural Gas,  
Reciprocating  
GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	1
Operating Time in Days per Week:	1
Operating Time in Weeks per Year:	1
Operating Time in Hours per Year:	1
Percent of Operation During Winter:	0
Percent of Operation During Spring:	100
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.0	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.0	tons/y	EPA emission factors (e.g., AP-42)

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Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-21

Designation: TA-55-DG-1

Description: Degreaser - Ultrasonic Cold  
Batch TA-55-4

Type: Parts Washer

SCC: Petroleum and Solvent  
Evaporation, Organic Solvent  
Evaporation, Degreasing,  
Trichloroethylene: General  
Degreasing Units

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Input Materials Processed: Solvent (INPUT)

Operating Detail

	Value
Operating Time in Hours per Day:	4
Operating Time in Days per Week:	1
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	208
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
TCE; (Trichloroethylene); (Trichloroethene):	0.002	tons/y	Material balance

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: ACT -7

Designation: LANL-FW-CHEM

Description: R & D Activities - Labwide (031)

Type: Research/Testing

SCC: Industrial Processes,  
Photographic Equipment/Health  
Care/Laboratories, Laboratories,  
Bench Scale Reagents: Research

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Acetaldehyde; (Ethyl aldehyde):	0.002	tons/y	Material balance
Acetonitrile; (Methyl cyanide):	0.112	tons/y	Material balance
Acetophenone:	0.001	tons/y	Material balance
Acrylamide:	0.0	tons/y	Material balance
Acrylic acid:	0.004	tons/y	Material balance
Acrylonitrile:	0.002	tons/y	Material balance
Ammonia:	0.0	tons/y	Material balance
Aniline:	0.025	tons/y	Material balance
Antimony:	0.0	tons/y	Material balance
Antimony compounds:	0.002	tons/y	Material balance
Arsenic Compounds:	0.001	tons/y	Material balance
Benzene:	0.011	tons/y	Material balance
Benzyl Chloride:	0.0	tons/y	Material balance
Beryllium Compounds:	0.001	tons/y	Material balance
Biphenyl:	0.0	tons/y	Material balance
Bromoform; (Tribromomethane):	0.0	tons/y	Material balance
Butadiene(1,3-):	0.001	tons/y	Material balance
Cadmium:	0.0	tons/y	Material balance



<b>Cadmium compounds:</b>	0.006	tons/y	Material balance
<b>Carbon Disulfide:</b>	0.003	tons/y	Material balance
<b>Carbon tetrachloride; (Tetrachloromethane):</b>	0.003	tons/y	Material balance
<b>Carbonyl sulfide:</b>	0.0	tons/y	Material balance
<b>Catechol (Pyrocatechol):</b>	0.0	tons/y	Material balance
<b>Chlorine:</b>	0.023	tons/y	Material balance
<b>Chloroacetic Acid:</b>	0.0	tons/y	Material balance
<b>Chlorobenzene(Phenyl Chloride):</b>	0.002	tons/y	Material balance
<b>Chloroform; (Trichloromethane):</b>	0.199	tons/y	Material balance
<b>Chromium:</b>	0.0	tons/y	Material balance
<b>Chromium VI compounds:</b>	0.007	tons/y	Material balance
<b>Cobalt Compounds:</b>	0.004	tons/y	Material balance
<b>Cresol(m-); (Methylphenol, 3-):</b>	0.001	tons/y	Material balance
<b>Cumene:</b>	0.0	tons/y	Material balance
<b>Cyanide compounds:</b>	0.598	tons/y	Material balance
<b>Dibutylphthalate; (Di-n-butyl phthalate):</b>	0.0	tons/y	Material balance
<b>Dichloroethane (1,2-); (EDC); (Ethylene dichloride):</b>	0.002	tons/y	Material balance
<b>Dichlorofluoromethane:</b>	0.0	tons/y	Material balance
<b>Diethanolamine:</b>	0.001	tons/y	Material balance
<b>Dimethyl Sulfate:</b>	0.0	tons/y	Material balance
<b>Dimethyl formamide:</b>	0.038	tons/y	Material balance
<b>Dimethylhydrazine(1,1-):</b>	0.0	tons/y	Material balance
<b>Dioxane(1,4-) (1,4-Diethyleneoxide):</b>	0.005	tons/y	Material balance
<b>Epichlorohydrin; (1-Chloro-2,3-epoxypropane):</b>	0.002	tons/y	Material balance
<b>Epoxybutane(1,2-) (1,2-Butylene oxide):</b>	0.0	tons/y	Material balance
<b>Ethyl Acrylate:</b>	0.001	tons/y	Material balance
<b>Ethyl chloride; (Chloroethane):</b>	0.0	tons/y	Material balance
<b>Ethylbenzene:</b>	0.001	tons/y	Material balance
<b>Ethylene Glycol:</b>	0.37	tons/y	Material balance
<b>Ethylene dibromide; (EDB); (1,2-Dibromoethane):</b>	0.001	tons/y	Material balance
<b>Formaldehyde:</b>	0.0	tons/y	Material balance
<b>Glycol Ethers:</b>	0.066	tons/y	Material balance
<b>Hexachlorocyclopentadiene:</b>	0.0	tons/y	Material balance
<b>Hexamethylphosphoramide:</b>	0.0	tons/y	Material balance
<b>Hexane:</b>	0.37	tons/y	Material balance
<b>Hydrazine:</b>	0.0	tons/y	Material balance
<b>Hydrochloric acid (HCl):</b>	1.141	tons/y	Material balance
<b>Hydrofluoric Acid; (Hydrogen fluoride):</b>	0.013	tons/y	Material balance
<b>Hydroquinone:</b>	0.037	tons/y	Material balance
<b>Iodomethane (Methyl iodide):</b>	0.002	tons/y	Material balance
<b>Lead Compounds:</b>	0.003	tons/y	Material balance
<b>Maleic anhydride:</b>	0.0	tons/y	Material balance
<b>Manganese:</b>	0.0	tons/y	Material balance
<b>Manganese compounds:</b>	0.01	tons/y	Material balance
<b>Mercury compounds:</b>	0.002	tons/y	Material balance
<b>Methanol; (Methyl alcohol):</b>	1.279	tons/y	Material balance
<b>Methyl Ethyl Ketone; (MEK); (2-Butanone):</b>	0.0	tons/y	Material balance
<b>Methyl Methacrylate:</b>	0.002	tons/y	Material balance

Methyl bromide; (Bromomethane):	0.0	tons/y	Material balance
Methyl chloride; (Chloromethane):	0.0	tons/y	Material balance
Methyl isobutyl ketone; (Hexone); (4-Methyl-2-pentanone):	0.004	tons/y	Material balance
Methyl tert butyl ether:	0.013	tons/y	Material balance
Methylene chloride; (Dichloromethane):	0.421	tons/y	Material balance
Methylenebiphenyl isocyanate; (MDI); (Diphenylmethane diisocyanate):	0.073	tons/y	Material balance
Mineral Fibers:	0.003	tons/y	Material balance
Naphthalene:	0.008	tons/y	Material balance
Nickel:	0.0	tons/y	Material balance
Nickel compounds:	0.009	tons/y	Material balance
Nitrobenzene; (nitro-Benzene):	0.005	tons/y	Material balance
Nitrophenol(4-); (p-Nitrophenol):	0.0	tons/y	Material balance
PCE; (Perchloroethylene); (Tetrachloroethylene); (Tetrachloroethene):	0.004	tons/y	Material balance
Phenol:	0.0	tons/y	Material balance
Phenylenediamine(p-); (Phenylenediamine):	0.0	tons/y	Material balance
Phosphine:	0.0	tons/y	Material balance
Phosphorus:	0.001	tons/y	Material balance
Phthalic anhydride:	0.0	tons/y	Material balance
Polycyclic Organic Matter:	0.045	tons/y	Material balance
Propylene Dichloride (1,2-Dichloropropane):	0.0	tons/y	Material balance
Propylene oxide:	0.0	tons/y	Material balance
Selenium:	0.0	tons/y	Material balance
Selenium compounds:	0.0	tons/y	Material balance
Styrene:	0.002	tons/y	Material balance
TCE; (Trichloroethylene); (Trichloroethene):	0.013	tons/y	Material balance
Tetrachloroethane(1,1,2,2-):	0.0	tons/y	Material balance
Titanium tetrachloride:	0.0	tons/y	Material balance
Toluene diisocyanate(2,4-):	0.0	tons/y	Material balance
Toluene; (Methyl benzene):	0.134	tons/y	Material balance
Total HAP:	5.16	tons/y	Material balance
Trichloroethane(1,1,1-) (Methyl Chloroform):	0.002	tons/y	Material balance
Trichloroethane(1,1,2-):	0.0	tons/y	Material balance
Triethylamine:	0.009	tons/y	Material balance
Trimethylpentane(2,2,4-):	0.001	tons/y	Material balance
Urethane; (Ethyl carbamate):	0.0	tons/y	Material balance
Vinyl acetate; (Vinyl acetate monomer):	0.0	tons/y	Material balance
Volatile Organic Compounds (VOC):	10.32	tons/y	Material balance
Xylene(m-); (1,3-Dimethylbenzene); (meta-Xylene):	0.0	tons/y	Material balance
Xylene(o-); (1,2-Dimethylbenzene); (ortho-Xylene):	0.001	tons/y	Material balance
Xylene(p-); (1,4-Dimethylbenzene); (para-Xylene):	0.0	tons/y	Material balance
Xylenes (total); (Xylol):	0.057	tons/y	Material balance
bis(2-ethylhexyl) phthalate; (Di-2-ethylhexyl phthalate); (DEHP):	0.0	tons/y	Material balance

*Subject Item Comments*

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: ACT -42

Designation: RLUOB-CHEM

Chemical Usage, Bldg.

Description: TA-55-400 (lab portion of RLUOB Bldg.)

Type: Research/Testing

SCC: Industrial Processes, Photographic Equipment/Health Care/Laboratories, Laboratories, Bench Scale Reagents: Research

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Operating Detail

	Value
Operating Time in Hours per Day:	24
Operating Time in Days per Week:	7
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	8760
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Total HAP:	0.006	tons/y	Material balance
Volatile Organic Compounds (VOC):	0.0	tons/y	Material balance

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856  
Facility Name: Los Alamos National Security, LLC  
Organization Name: U.S. Department of Energy National Nuclear Security Administration  
Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-89  
Designation: TA-52-11  
Description: Data Disintegrator/Industrial Shredder  
Type: Shredder  
SCC: Industrial Processes, Pulp and Paper and Wood Products, Miscellaneous Paper Products, Other Not Classified  
GHG Reporting: Reports GHG to EPA

Supplemental Parameters

Input Materials Processed: Paper (INPUT)

Operating Detail

	Value
Operating Time in Hours per Day:	7
Operating Time in Days per Week:	5
Operating Time in Weeks per Year:	52
Operating Time in Hours per Year:	1820
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Particulate Matter (10 microns or less):	0.38	tons/y	Manufacturer Specification
Particulate Matter (2.5 microns or less):	0.25	tons/y	Manufacturer Specification
Particulate Matter (total suspended):	0.42	tons/y	Manufacturer Specification

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 20, 2018

Agency ID: 856

Facility Name: Los Alamos National Security, LLC

Organization Name: U.S. Department of Energy National Nuclear Security Administration

Submittal Status: 2017 Submittal (In Process)

Subject Item ID: EQPT-112

Designation: TA-3-22-CT-1

Description: Combustion Turbine

Type: Turbine

SCC: Internal Combustion Engines,  
Electric Generation, Natural Gas,  
Turbine

GHG Reporting: Reports GHG to EPA

Supplemental Parameters

	Amount	Unit of Measure
Fuel Type:	Diesel	
Input Materials Processed:	Diesel (INPUT)	
Materials Consumed:	51.2	gal
Fuel Heating Value:	1020.0	MM BTU/M gal
Percent Sulfur of Fuel:	0.001	percent
Percent Ash of Fuel:	0.0	percent
Percent Carbon Content:	65.0	percent

Operating Detail

	Value
Operating Time in Hours per Day:	7
Operating Time in Days per Week:	4
Operating Time in Weeks per Year:	12
Operating Time in Hours per Year:	500
Percent of Operation During Winter:	25
Percent of Operation During Spring:	25
Percent of Operation During Summer:	25
Percent of Operation During Fall:	25

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Acetaldehyde; (Ethyl aldehyde):	0.001	tons/y	EPA emission factors (e.g., AP-42)
Carbon Monoxide:	0.269	tons/y	EPA emission factors (e.g., AP-42)
Copper:	0.002	tons/y	EPA emission factors (e.g., AP-42)
Ethylbenzene:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.019	tons/y	EPA emission factors (e.g., AP-42)
Lead:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Manganese:	0.002	tons/y	EPA emission factors (e.g., AP-42)
Nickel:	0.003	tons/y	EPA emission factors (e.g., AP-42)

<b>Nitrogen Dioxide:</b>	1.293	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.174	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.174	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.174	tons/y	EPA emission factors (e.g., AP-42)
<b>Propylene oxide:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.09	tons/y	EPA emission factors (e.g., AP-42)
<b>Toluene; (Methyl benzene):</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.056	tons/y	EPA emission factors (e.g., AP-42)
<b>Xylenes (total); (Xylol):</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

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