



memorandum

*Environmental Protection & Compliance Division
Los Alamos National Laboratory*

To/MS: 2016 Emissions Inventory File
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From/MS: Walt Whetham, EPC-CP, MS J978 *Whetham*
Phone: 505-665-8885
Symbol: EPC-DO: 17-130
Date: **MAR 22 2017**

Subject: 2016 Emissions Inventory Electronic Submittal

Los Alamos National Laboratory (LANL) submitted their 2016 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, 2017, and meets New Mexico Environmental Department's deadline of April 1st.

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.

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Enclosure 1

2016 Emissions Inventory Report

EPC-DO-17-130

LA-UR-17-22005

Electronic Submittal

Date: **MAR 22 2017**

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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:	1.47	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:	1040
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:	0.152	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
Particulate Matter (total suspended):	0.003	tons/y	Manufacturer Specification
Sulfur Dioxide:	0.002	tons/y	EPA emission factors (e.g., AP-42)

Volatile Organic Compounds (VOC): 0.003 tons/y EPA emission factors (e.g., AP-42)

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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

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Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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

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Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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

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Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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:	9.253	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:	0.389	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.008	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.463	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.035	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.035	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.035	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):	0.025	tons/y	EPA emission factors (e.g., AP-42)

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Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	9.253	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:	0.389	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.008	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.463	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.035	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.035	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.035	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):	0.025	tons/y	EPA emission factors (e.g., AP-42)

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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:	29.205	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:	0.584	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.026	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.847	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.111	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.111	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.111	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.009	tons/y	EPA emission factors (e.g., AP-42)

Toluene; (Methyl benzene):

0.0

tons/y

EPA emission factors (e.g., AP-42)

Volatile Organic Compounds (VOC):

0.08

tons/y

EPA emission factors (e.g., AP-42)

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Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	266.337	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:	5.327	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.01	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.24	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	7.724	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	1.012	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	1.012	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	1.012	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.08	tons/y	EPA emission factors (e.g., AP-42)

Volatile Organic Compounds (VOC): 0.732 tons/y EPA emission factors (e.g., AP-42)

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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:	62.121	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:	1.242	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.002	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.056	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	1.802	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.236	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.236	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.236	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.019	tons/y	EPA emission factors (e.g., AP-42)

Volatile Organic Compounds (VOC): 0.171 tons/y EPA emission factors (e.g., AP-42)

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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**

	Amount	Unit of Measure
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	5.585	MM SCF
Fuel Heating Value:	1021.0	MM BTU/MM SCF
Percent Sulfur of Fuel:	0.001	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:	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:	0.107	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.005	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.385	tons/y	Actual stack test
Particulate Matter (10 microns or less):	0.04	tons/y	Manufacturer Specification
Particulate Matter (2.5 microns or less):	0.04	tons/y	Manufacturer Specification
Particulate Matter (total suspended):	0.04	tons/y	Manufacturer Specification
Sulfur Dioxide:	0.002	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.017	tons/y	Manufacturer Specification

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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

	Amount	Unit of Measure
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	16.48	MM SCF
Fuel Heating Value:	1021.0	MM BTU/MM SCF
Percent Sulfur of Fuel:	0.001	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:	10
Percent of Operation During Summer:	10
Percent of Operation During Fall:	40

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.315	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.015	tons/y	EPA emission factors (e.g., AP-42)
Lead:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	1.137	tons/y	Actual stack test
Particulate Matter (10 microns or less):	0.117	tons/y	Manufacturer Specification
Particulate Matter (2.5 microns or less):	0.117	tons/y	Manufacturer Specification
Particulate Matter (total suspended):	0.117	tons/y	Manufacturer Specification
Sulfur Dioxide:	0.005	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.049	tons/y	Manufacturer Specification

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Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	8.258	MM SCF
Fuel Heating Value:	1021.0	MM BTU/MM SCF
Percent Ash of Fuel:	0.0	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:	0.153	tons/y	Design calculation
Hexane:	0.007	tons/y	Design calculation
Lead:	0.0	tons/y	Design calculation
Nitrogen Dioxide:	0.153	tons/y	Design calculation
Particulate Matter (10 microns or less):	0.031	tons/y	Design calculation
Particulate Matter (2.5 microns or less):	0.031	tons/y	Design calculation
Particulate Matter (total suspended):	0.031	tons/y	Design calculation
Sulfur Dioxide:	0.002	tons/y	Design calculation
Volatile Organic Compounds (VOC):	0.023	tons/y	Design calculation

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Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	0.9	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:	0.017	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.013	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):	0.012	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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:	0.9	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:	0.017	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.013	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):	0.012	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	0.9	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:	0.017	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.013	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):	0.012	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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.

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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
Fuel Type:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	8.258	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:	0.153	tons/y	Design calculation
Hexane:	0.007	tons/y	Design calculation
Lead:	0.0	tons/y	Design calculation
Nitrogen Dioxide:	0.153	tons/y	Design calculation
Particulate Matter (10 microns or less):	0.031	tons/y	Design calculation
Particulate Matter (2.5 microns or less):	0.031	tons/y	Design calculation
Particulate Matter (total suspended):	0.031	tons/y	Design calculation
Sulfur Dioxide:	0.002	tons/y	Design calculation
Volatile Organic Compounds (VOC):	0.023	tons/y	Design calculation

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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:	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

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 Submittal (In Process)

Subject Item ID: EQPT-144

Designation: Boiler combined emissions

TA-16-1484-Bs-1,2; TA -53-365-

Description: 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 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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
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)

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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
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

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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
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

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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:	0.74	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	3.2	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.16	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.16	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.14	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.16	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 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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
Fuel Type:	Diesel	
Input Materials Processed:	Diesel (INPUT)	
Materials Consumed:	2.38	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:	2
Operating Time in Days per Week:	1
Operating Time in Weeks per Year:	1
Operating Time in Hours per Year:	2
Percent of Operation During Winter:	50
Percent of Operation During Spring:	0
Percent of Operation During Summer:	0
Percent of Operation During Fall:	50

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	Design calculation
Nitrogen Dioxide:	0.001	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 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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
Fuel Type:	Diesel	
Input Materials Processed:	Diesel (INPUT)	
Materials Consumed:	2.55	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:	1
Operating Time in Days per Week:	1
Operating Time in Weeks per Year:	2
Operating Time in Hours per Year:	2
Percent of Operation During Winter:	0
Percent of Operation During Spring:	50
Percent of Operation During Summer:	0
Percent of Operation During Fall:	50

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.0	tons/y	Design calculation
Nitrogen Dioxide:	0.001	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 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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
Fuel Type:	Diesel	
Materials Consumed:	2279.2	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:	0.458	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.369	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.018	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.022	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.01	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.052	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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:	79.0	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:	0.014	tons/y	Design calculation
Nitrogen Dioxide:	0.023	tons/y	Design calculation
Particulate Matter (10 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:	0.002	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.002	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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:	20
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:	0.048	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.219	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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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856
Facility Name: Los Alamos National Laboratory
Organization Name: U.S. Department of Energy National Nuclear Security Administration
Submittal Status: 2016 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:	0.016	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.164	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.005	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.005	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):	0.012	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 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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:	2797.2	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:	0.562	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.453	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.022	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.027	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.012	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.064	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 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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:	2413.88	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:	0.485	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.391	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.019	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.023	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.01	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.055	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 21, 2017

Agency ID: 856
Facility Name: Los Alamos National Laboratory
Organization Name: U.S. Department of Energy National Nuclear Security Administration
Submittal Status: 2016 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
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)

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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:	0.0	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

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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):	0.01	tons/y	Material balance

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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):	0.188	tons/y	Material balance
Acetophenone:	0.0	tons/y	Material balance
Acrylamide:	0.0	tons/y	Material balance
Acrylic acid:	0.0	tons/y	Material balance
Acrylonitrile:	0.0	tons/y	Material balance
Ammonia:	0.0	tons/y	Material balance
Aniline:	0.004	tons/y	Material balance
Antimony:	0.0	tons/y	Material balance
Antimony compounds:	0.0	tons/y	Material balance
Arsenic Compounds:	0.0	tons/y	Material balance
Benzene:	0.072	tons/y	Material balance
Benzyl Chloride:	0.0	tons/y	Material balance
Beryllium Compounds:	0.0	tons/y	Material balance
Biphenyl:	0.0	tons/y	Material balance
Bromoform; (Tribromomethane):	0.0	tons/y	Material balance
Butadiene(1,3-):	0.0	tons/y	Material balance
Cadmium:	0.0	tons/y	Material balance
Cadmium compounds:	0.074	tons/y	Material balance
Carbon Disulfide:	0.002	tons/y	Material balance

Carbon tetrachloride; (Tetrachloromethane):	0.0	tons/y	Material balance
Carbonyl sulfide:	0.0	tons/y	Material balance
Catechol (Pyrocatechol):	0.0	tons/y	Material balance
Chlorine:	0.007	tons/y	Material balance
Chloroacetic Acid:	0.0	tons/y	Material balance
Chlorobenzene(Phenyl Chloride):	0.0	tons/y	Material balance
Chloroform; (Trichloromethane):	0.11	tons/y	Material balance
Chromium:	0.0	tons/y	Material balance
Chromium VI compounds:	0.004	tons/y	Material balance
Cobalt Compounds:	0.044	tons/y	Material balance
Cresol(m-); (Methylphenol, 3-):	0.0	tons/y	Material balance
Cumene:	0.0	tons/y	Material balance
Cyanide compounds:	0.003	tons/y	Material balance
Dibutylphthalate; (Di-n-butyl phthalate):	0.001	tons/y	Material balance
Dichloroethane (1,2-); (EDC); (Ethylene dichloride):	0.011	tons/y	Material balance
Dichlorofluoromethane:	0.47	tons/y	Material balance
Diethanolamine:	0.001	tons/y	Material balance
Dimethyl Sulfate:	0.0	tons/y	Material balance
Dimethyl formamide:	0.114	tons/y	Material balance
Dimethylhydrazine(1,1-):	0.001	tons/y	Material balance
Dioxane(1,4-) (1,4-Diethyleneoxide):	0.008	tons/y	Material balance
Epichlorohydrin; (1-Chloro-2,3-epoxypropane):	0.0	tons/y	Material balance
Epoxybutane(1,2-) (1,2-Butylene oxide):	0.0	tons/y	Material balance
Ethyl Acrylate:	0.0	tons/y	Material balance
Ethyl chloride; (Chloroethane):	0.0	tons/y	Material balance
Ethylbenzene:	0.0	tons/y	Material balance
Ethylene Glycol:	1.084	tons/y	Material balance
Ethylene dibromide; (EDB); (1,2-Dibromoethane):	0.0	tons/y	Material balance
Formaldehyde:	0.002	tons/y	Material balance
Glycol Ethers:	1.121	tons/y	Material balance
Hexachlorocyclopentadiene:	0.0	tons/y	Material balance
Hexamethylphosphoramide:	0.0	tons/y	Material balance
Hexane:	0.249	tons/y	Material balance
Hydrazine:	0.001	tons/y	Material balance
Hydrochloric acid (HCl):	1.215	tons/y	Material balance
Hydrofluoric Acid; (Hydrogen fluoride):	0.168	tons/y	Material balance
Hydroquinone:	0.054	tons/y	Material balance
Iodomethane (Methyl iodide):	0.001	tons/y	Material balance
Lead Compounds:	0.002	tons/y	Material balance
Maleic anhydride:	0.0	tons/y	Material balance
Manganese:	0.0	tons/y	Material balance
Manganese compounds:	0.003	tons/y	Material balance
Mercury compounds:	0.002	tons/y	Material balance
Methanol; (Methyl alcohol):	0.705	tons/y	Material balance
Methyl Ethyl Ketone; (MEK); (2-Butanone):	0.0	tons/y	Material balance
Methyl Methacrylate:	0.001	tons/y	Material balance
Methyl bromide; (Bromomethane):	0.0	tons/y	Material balance
Methyl chloride; (Chloromethane):	0.01	tons/y	Material balance
Methyl isobutyl ketone; (Hexone); (4-Methyl-2-pentanone):	0.0	tons/y	Material balance

Methyl tert butyl ether:	0.016	tons/y	Material balance
Methylene chloride; (Dichloromethane):	0.0	tons/y	Material balance
Methylenebiphenyl isocyanate; (MDI); (Diphenylmethane diisocyanate):	0.068	tons/y	Material balance
Naphthalene:	0.0	tons/y	Material balance
Nickel:	0.0	tons/y	Material balance
Nickel compounds:	0.003	tons/y	Material balance
Nitrobenzene; (nitro-Benzene):	0.0	tons/y	Material balance
Nitrophenol(4-); (p-Nitrophenol):	0.0	tons/y	Material balance
PCE; (Perchloroethylene); (Tetrachloroethylene); (Tetrachloroethene):	0.01	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:	0.0	tons/y	Material balance
Phthalic anhydride:	0.0	tons/y	Material balance
Polycyclic Organic Matter:	0.004	tons/y	Material balance
Propylene Dichloride (1,2-Dichloropropane):	0.004	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:	0.001	tons/y	Material balance
TCE; (Trichloroethylene); (Trichloroethene):	0.009	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):	0.492	tons/y	Material balance
Total HAP:	0.0	tons/y	Material balance
Trichloroethane(1,1,1-) (Methyl Chloroform):	0.0	tons/y	Material balance
Trichloroethane(1,1,2-):	0.0	tons/y	Material balance
Triethylamine:	0.005	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):	0.0	tons/y	Material balance
Xylene(m-); (1,3-Dimethylbenzene); (meta-Xylene):	0.001	tons/y	Material balance
Xylene(o-); (1,2-Dimethylbenzene); (ortho-Xylene):	0.002	tons/y	Material balance
Xylene(p-); (1,4-Dimethylbenzene); (para-Xylene):	0.0	tons/y	Material balance
Xylenes (total); (Xylol):	0.089	tons/y	Material balance
bis(2-ethylhexyl) phthalate; (Di-2-ethylhexyl phthalate); (DEHP):	0.0	tons/y	Material balance

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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:	0.003	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 21, 2017

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2016 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):	0.29	tons/y	Manufacturer Specification
Particulate Matter (2.5 microns or less):	0.19	tons/y	Manufacturer Specification
Particulate Matter (total suspended):	0.32	tons/y	Manufacturer Specification

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Tuesday, March 21, 2017

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2016 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:	Natural Gas	
Input Materials Processed:	Natural Gas (INPUT)	
Materials Consumed:	63.97	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
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:	0.336	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:	0.023	tons/y	EPA emission factors (e.g., AP-42)
Lead:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Manganese:	0.003	tons/y	EPA emission factors (e.g., AP-42)
Nickel:	0.004	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	1.615	tons/y	EPA emission factors (e.g., AP-42)

Particulate Matter (10 microns or less):	0.218	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.218	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.218	tons/y	EPA emission factors (e.g., AP-42)
Propylene oxide:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.112	tons/y	EPA emission factors (e.g., AP-42)
Toluene; (Methyl benzene):	0.004	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.07	tons/y	EPA emission factors (e.g., AP-42)
Xylenes (total); (Xylol):	0.002	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

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