




memorandum

*Environmental Protection & Compliance Division
Environmental Compliance Programs (EPC-CP)*

To/MS: 2015 Emissions Inventory File
From/MS: Steven L. Story, EPC-CP, (E-File) 
Phone/Fax: 5-2169
LA-UR: 16-21762
Symbol: EPC-DO-16-072
Date: MAR 28 2016

Subject: 2015 Emissions Inventory Electronic Submittal

Los Alamos National Laboratory (LANL) submitted their 2015 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 25, 2016, 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.

SLS:WW/lm

Cy: Hai Shen, EM-SG, (E-File)
Kirsten Laskey, EM-LA, (E-File)
Adrienne Nash, NA-LA, (E-File)
Richard M. Kacich, DIR, (E-File)
Craig S. Leasure, PADOPS, (E-File)
William R. Mairson, PADOPS, (E-File)
Michael T. Brandt, ADESH, (E-File)
Raeanna Sharp-Geiger, ADESH, (E-File)
John P. McCann, EPC-DO, (E-File)
Steven L. Story, EPC-CP, (E-File)
Walter Whetham, EPC-CP, (E-File)
Emissions Inventory Project File
ADESH Correspondence (E-File)
locatsteam@lanl.gov, (E-File)
epc-correspondence@lanl.gov, (E-File)

Enclosure 1

2015 Emissions Inventory Report

EPC-DO-16-071

LA-UR-16-21762

Electronic Submittal

MAR 2 8 2016

Date: _____

Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2015 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:	1.435	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:	0.102	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:	0.003	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.001	tons/y	Manufacturer Specification
Particulate Matter (2.5 microns or less):	0.001	tons/y	Manufacturer Specification
Particulate Matter (total suspended):	0.002	tons/y	Manufacturer Specification
Sulfur Dioxide:	0.001	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

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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	Sample testing
Particulate Matter (total suspended):	0.0	tons/y	Sample testing

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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	EPA emission factors (e.g., AP-42)

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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	Design calculation

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	10.484	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:	0.44	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:	0.524	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.04	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.04	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.04	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):	0.029	tons/y	EPA emission factors (e.g., AP-42)

Facility Annual Emissions - Subject Item Submittal Review

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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: 2015 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:	10.484	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:	0.44	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:	0.524	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.04	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.04	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.04	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):	0.029	tons/y	EPA emission factors (e.g., AP-42)

Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	43.538	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:	0.871	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.002	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.039	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	1.263	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.165	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.165	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.165	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.013	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):	0.12	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	267.609	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:	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:	5.352	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.01	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.241	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	7.761	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	1.017	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	1.017	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	1.017	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): 0.736 tons/y EPA emission factors (e.g., AP-42)

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2015 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:	65.871	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:	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:	1.317	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.002	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.059	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	1.91	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.25	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (2.5 microns or less):	0.25	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.25	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.02	tons/y	EPA emission factors (e.g., AP-42)

Volatile Organic Compounds (VOC): 0.181 tons/y EPA emission factors (e.g., AP-42)

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	6.463	MM SCF
Fuel Heating Value:	1020.0	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:	0.123	tons/y	EPA emission factors (e.g., AP-42)
Formaldehyde:	0.0	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.006	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.446	tons/y	Actual stack test
Particulate Matter (10 microns or less):	0.046	tons/y	Manufacturer Specification
Particulate Matter (2.5 microns or less):	0.046	tons/y	Manufacturer Specification
Particulate Matter (total suspended):	0.046	tons/y	Manufacturer Specification
Sulfur Dioxide:	0.002	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.019	tons/y	Manufacturer Specification

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2015 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:	16.263	MM SCF
Fuel Heating Value:	1020.0	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:	0.311	tons/y	Manufacturer Specification
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	Manufacturer Specification
Nitrogen Dioxide:	1.122	tons/y	Actual stack test
Particulate Matter (10 microns or less):	0.115	tons/y	Manufacturer Specification
Particulate Matter (2.5 microns or less):	0.115	tons/y	Manufacturer Specification
Particulate Matter (total suspended):	0.115	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

Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2015 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:	9.358	MM SCF
Fuel Heating Value:	1020.0	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:	0.173	tons/y	Design calculation
Hexane:	0.008	tons/y	Design calculation
Lead:	0.0	tons/y	Design calculation
Nitrogen Dioxide:	0.173	tons/y	Design calculation
Particulate Matter (10 microns or less):	0.036	tons/y	Design calculation
Particulate Matter (2.5 microns or less):	0.036	tons/y	Design calculation
Particulate Matter (total suspended):	0.036	tons/y	Design calculation
Sulfur Dioxide:	0.003	tons/y	Design calculation
Volatile Organic Compounds (VOC):	0.026	tons/y	Design calculation

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	0.954	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:	0.018	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.014	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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	0.954	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:	0.018	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.014	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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	0.954	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:	0.018	tons/y	EPA emission factors (e.g., AP-42)
Hexane:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.014	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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	9.36	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:	0.173	tons/y	Design calculation
Hexane:	0.008	tons/y	Design calculation
Lead:	0.0	tons/y	Design calculation
Nitrogen Dioxide:	0.173	tons/y	Design calculation
Particulate Matter (10 microns or less):	0.036	tons/y	Design calculation
Particulate Matter (2.5 microns or less):	0.036	tons/y	Design calculation
Particulate Matter (total suspended):	0.036	tons/y	Design calculation
Sulfur Dioxide:	0.003	tons/y	Design calculation
Volatile Organic Compounds (VOC):	0.026	tons/y	Design calculation

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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 power plant boilers for both natural gas and fuel oil. However, these emissions are already captured with Facility IDs 24, 25, and 26 for natural gas and Facility IDs 137, 138, and 141 for fuel oil. In order to avoid counting the emissions twice, NMED has asked us to enter zeros for this Facility ID.

Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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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Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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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Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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

Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	1.2	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	4.71	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.24	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.24	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.2	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.24	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	42.33	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:	2
Operating Time in Weeks per Year:	10
Operating Time in Hours per Year:	13
Percent of Operation During Winter:	50
Percent of Operation During Spring:	50
Percent of Operation During Summer:	0
Percent of Operation During Fall:	0

Actual Pollutants

Pollutant	Amount	Unit of Measure	Calculation Method
Carbon Monoxide:	0.003	tons/y	Design calculation
Nitrogen Dioxide:	0.01	tons/y	Design calculation
Particulate Matter (10 microns or less):	0.001	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.001	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.001	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	1.53	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:	2
Operating Time in Weeks per Year:	10
Operating Time in Hours per Year:	17
Percent of Operation During Winter:	5
Percent of Operation During Spring:	5
Percent of Operation During Summer:	45
Percent of Operation During Fall:	45

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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	2455.32	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:	0.493	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.398	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):	0.056	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2015 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:	4866.4	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:	300
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:	0.87	tons/y	Design calculation
Nitrogen Dioxide:	1.44	tons/y	Design calculation
Particulate Matter (10 microns or less):	0.1	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.1	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.1	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.12	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	0.076	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.347	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.011	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.011	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.006	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.013	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	1
Operating Time in Days per Week:	1
Operating Time in Weeks per Year:	1
Operating Time in Hours per Year:	3
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:	0.003	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.025	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.001	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):	0.001	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.001	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

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Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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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Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	2237.76	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:	0.45	tons/y	EPA emission factors (e.g., AP-42)
Nitrogen Dioxide:	0.363	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):	0.021	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.009	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.051	tons/y	EPA emission factors (e.g., AP-42)

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	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

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	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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Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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):	0.006	tons/y	Material balance

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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):	0.0	tons/y	Material balance
Acetonitrile; (Methyl cyanide):	0.141	tons/y	Material balance
Acetophenone:	0.0	tons/y	Material balance
Acrylamide:	0.001	tons/y	Material balance
Acrylic acid:	0.001	tons/y	Material balance
Acrylonitrile:	0.0	tons/y	Material balance
Ammonia:	0.0	tons/y	Material balance
Aniline:	0.0	tons/y	Material balance
Antimony:	0.0	tons/y	Material balance
Antimony compounds:	0.0	tons/y	Material balance
Arsenic Compounds:	0.001	tons/y	Material balance
Benzene:	0.006	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-):	0.0	tons/y	Material balance
Cadmium:	0.0	tons/y	Material balance
Cadmium compounds:	0.0	tons/y	Material balance
Carbon Disulfide:	0.001	tons/y	Material balance

Carbon tetrachloride; (Tetrachloromethane):	0.002	tons/y	Material balance
Carbonyl sulfide:	0.0	tons/y	Material balance
Catechol (Pyrocatechol):	0.0	tons/y	Material balance
Chlorine:	0.015	tons/y	Material balance
Chloroacetic Acid:	0.0	tons/y	Material balance
Chlorobenzene(Phenyl Chloride):	0.001	tons/y	Material balance
Chloroform; (Trichloromethane):	0.141	tons/y	Material balance
Chromium:	0.0	tons/y	Material balance
Chromium VI compounds:	0.003	tons/y	Material balance
Cobalt Compounds:	0.024	tons/y	Material balance
Cresol(m-); (Methylphenol, 3-):	0.0	tons/y	Material balance
Cumene:	0.0	tons/y	Material balance
Cyanide compounds:	0.056	tons/y	Material balance
Dibutylphthalate; (Di-n-butyl phthalate):	0.0	tons/y	Material balance
Dichloroethane (1,2-); (EDC); (Ethylene dichloride):	0.005	tons/y	Material balance
Diethanolamine:	0.0	tons/y	Material balance
Dimethyl Sulfate:	0.0	tons/y	Material balance
Dimethyl formamide:	0.02	tons/y	Material balance
Dimethylhydrazine(1,1-):	0.0	tons/y	Material balance
Dioxane(1,4-) (1,4-Diethyleneoxide):	0.004	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:	0.002	tons/y	Material balance
Ethylene Glycol:	0.033	tons/y	Material balance
Ethylene dibromide; (EDB); (1,2-Dibromoethane):	0.003	tons/y	Material balance
Formaldehyde:	0.004	tons/y	Material balance
Glycol Ethers:	1.407	tons/y	Material balance
Hexachlorocyclopentadiene:	0.0	tons/y	Material balance
Hexamethylphosphoramide:	0.0	tons/y	Material balance
Hexane:	0.204	tons/y	Material balance
Hydrazine:	0.0	tons/y	Material balance
Hydrochloric acid (HCl):	1.176	tons/y	Material balance
Hydrofluoric Acid; (Hydrogen fluoride):	0.007	tons/y	Material balance
Hydroquinone:	0.002	tons/y	Material balance
Iodomethane (Methyl iodide):	0.001	tons/y	Material balance
Lead Compounds:	0.012	tons/y	Material balance
Maleic anhydride:	0.0	tons/y	Material balance
Manganese:	0.0	tons/y	Material balance
Manganese compounds:	0.022	tons/y	Material balance
Mercury compounds:	0.0	tons/y	Material balance
Methanol; (Methyl alcohol):	0.422	tons/y	Material balance
Methyl Ethyl Ketone; (MEK); (2-Butanone):	0.0	tons/y	Material balance
Methyl Methacrylate:	0.0	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):	0.005	tons/y	Material balance
Methyl tert butyl ether:	0.009	tons/y	Material balance

Methylene chloride; (Dichloromethane):	0.272	tons/y	Material balance
Methylenebiphenyl isocyanate; (MDI); (Diphenylmethane diisocyanate):	0.068	tons/y	Material balance
Naphthalene:	0.001	tons/y	Material balance
Nickel:	0.0	tons/y	Material balance
Nickel compounds:	0.006	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):	0.014	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:	0.001	tons/y	Material balance
Polycyclic Organic Matter:	0.001	tons/y	Material balance
Propylene Dichloride (1,2-Dichloropropane):	0.0	tons/y	Material balance
Propylene oxide:	0.001	tons/y	Material balance
Selenium:	0.0	tons/y	Material balance
Selenium compounds:	0.001	tons/y	Material balance
Styrene:	0.0	tons/y	Material balance
TCE; (Trichloroethylene); (Trichloroethene):	0.003	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):	0.276	tons/y	Material balance
Total HAP:	4.41	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:	0.001	tons/y	Material balance
Trimethylpentane(2,2,4-):	0.0	tons/y	Material balance
Urethane; (Ethyl carbamate):	0.0	tons/y	Material balance
Vinyl acetate; (Vinyl acetate monomer):	0.004	tons/y	Material balance
Volatile Organic Compounds (VOC):	9.08	tons/y	Material balance
Xylene(o-); (1,2-Dimethylbenzene); (ortho-Xylene):	0.004	tons/y	Material balance
Xylene(p-); (1,4-Dimethylbenzene); (para-Xylene):	0.0	tons/y	Material balance
Xylenes (total); (Xylol):	0.015	tons/y	Material balance
bis(2-ethylhexyl) phthalate; (Di-2-ethylhexyl phthalate); (DEHP):	0.001	tons/y	Material balance

Subject Item Comments

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Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	0.0	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

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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):	0.06	tons/y	Manufacturer Specification
Particulate Matter (2.5 microns or less):	0.04	tons/y	Manufacturer Specification
Particulate Matter (total suspended):	0.06	tons/y	Manufacturer Specification

Subject Item Comments

Facility Annual Emissions - Subject Item Submittal Review

Monday, March 14, 2016

Agency ID: 856

Facility Name: Los Alamos National Laboratory

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

Submittal Status: 2015 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:	49.63	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:	0.261	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:	0.018	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)
Nitrogen Dioxide:	1.253	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (10 microns or less):	0.169	tons/y	EPA emission factors (e.g., AP-42)

Particulate Matter (2.5 microns or less):	0.169	tons/y	EPA emission factors (e.g., AP-42)
Particulate Matter (total suspended):	0.169	tons/y	EPA emission factors (e.g., AP-42)
Propylene oxide:	0.001	tons/y	EPA emission factors (e.g., AP-42)
Sulfur Dioxide:	0.087	tons/y	EPA emission factors (e.g., AP-42)
Toluene; (Methyl benzene):	0.003	tons/y	EPA emission factors (e.g., AP-42)
Volatile Organic Compounds (VOC):	0.055	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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