



# memorandum

*Environmental Protection Division  
Environmental Compliance Programs (ENV-CP)*

*To/MS:* 2014 Emissions Inventory File  
*From/MS:* Alison M. Dorries, ENV-DO, (E-File) *AMD*  
*From/MS:* Steven L. Story, ENV-CP, (E-File) *Story*  
*Phone/Fax:* 7-2211/7-0731  
*LA-UR:* 15-21793  
*Symbol:* ENV-DO-15-0077  
*Date:* **MAR 23 2015**

**Subject: 2014 Emissions Inventory Electronic Submittal**

Los Alamos National Laboratory (LANL) submitted their 2014 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 24, 2015, and meets New Mexico Environmental Department's deadline of April 1<sup>st</sup>.

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

AMD:SLS/LM

Cy: Kirsten Laskey, NA-LA, (E-File)  
 Hai Shen, NA-LA, (E-File)  
 Michael A. Lansing, PADOPS, (E-File)  
 Amy E. De Palma, PADOPS, (E-File)  
 Michael T. Brandt, ADESH, (E-File)  
 Raeanna Sharp-Geiger, ADESH, (E-File)  
 Alison Dorries, ENV-DO, (E-File)  
 Steven L. Story, ENV-CP, (E-File)  
 Walter Whetham, ENV-CP, (E-File)  
 Emissions Inventory Project File  
 ADESH Correspondence (E-File)  
[locatsteam@lanl.gov](mailto:locatsteam@lanl.gov), (E-File)  
[env-correspondence@lanl.gov](mailto:env-correspondence@lanl.gov), (E-File)

# **Enclosure**

2014 Emissions Inventory Report

ENV-DO-15-0077

Electronic Submittal

Date: March 23, 2015

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

Tuesday, March 17, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Asphalt (OUTPUT)	
<b>Materials Consumed:</b>	0.921	MM SCF
<b>Fuel Heating Value:</b>	1020.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent

**Operating Detail**

	<b>Value</b>
<b>Operating Time in Hours per Day:</b>	8
<b>Operating Time in Days per Week:</b>	5
<b>Operating Time in Weeks per Year:</b>	26
<b>Operating Time in Hours per Year:</b>	1040
<b>Percent of Operation During Winter:</b>	10
<b>Percent of Operation During Spring:</b>	30
<b>Percent of Operation During Summer:</b>	30
<b>Percent of Operation During Fall:</b>	30

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	0.117	tons/y	EPA emission factors (e.g., AP-42)
<b>Ethylbenzene:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Lead:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.002	tons/y	Manufacturer Specification
<b>Particulate Matter (2.5 microns or less):</b>	0.002	tons/y	Manufacturer Specification
<b>Particulate Matter (total suspended):</b>	0.002	tons/y	Manufacturer Specification
<b>Sulfur Dioxide:</b>	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*

---

Print

Close



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** ACT -2**Designation:** TA-35-213**Description:** Be Target 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
<b>Operating Time in Hours per Day:</b>	5
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	1820
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

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

**Subject Item Comments**

Print

Close

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** ACT -3**Designation:** TA-3-141**Description:** 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
<b>Operating Time in Hours per Day:</b>	24
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	8760
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Beryllium:</b>	0.0	tons/y	Sample testing
<b>Particulate Matter (total suspended):</b>	0.0	tons/y	Sample testing

**Subject Item Comments**

Print

Close

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** ACT -6**Designation:** TA-55-PF4 (a)

Plutonium Facility Beryllium

**Description:** 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
<b>Operating Time in Hours per Day:</b>	5
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	1820
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Beryllium:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

Print

Close

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** ACT -41**Designation:** TA-3-66**Description:** Sigma 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
<b>Operating Time in Hours per Day:</b>	8
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	8760
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Beryllium:</b>	0.0	tons/y	Design calculation

**Subject Item Comments**[Print](#) [Close](#)



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	11.02	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	0.463	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.01	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.551	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.042	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.042	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.042	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.03	tons/y	EPA emission factors (e.g., AP-42)

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	11.015	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	0.463	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.01	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.551	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.042	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.042	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.042	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.03	tons/y	EPA emission factors (e.g., AP-42)



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-24**Designation:** TA-3-22-1**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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	95.201	MM SCF
<b>Fuel Heating Value:</b>	1020.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	1.904	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.004	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.086	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	2.761	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.362	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.362	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.362	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.029	tons/y	EPA emission factors (e.g., AP-42)

<b>Toluene; (Methyl benzene):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.262	tons/y	EPA emission factors (e.g., AP-42)

*Subject Item Comments*

Print

Close

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-25**Designation:** TA-3-22-2**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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	228.237	MM SCF
<b>Fuel Heating Value:</b>	1020.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	4.565	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.009	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.205	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	6.619	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.867	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.867	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.867	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.068	tons/y	EPA emission factors (e.g., AP-42)

**Volatile Organic Compounds (VOC):** 0.628 tons/y EPA emission factors (e.g., AP-42)

*Subject Item Comments*

Print

Close

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-26**Designation:** TA-3-22-3**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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	55.798	MM SCF
<b>Fuel Heating Value:</b>	1020.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	1.116	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.05	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	1.618	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.212	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.212	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.212	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.017	tons/y	EPA emission factors (e.g., AP-42)



**Volatile Organic Compounds (VOC):** 0.153 tons/y EPA emission factors (e.g., AP-42)

*Subject Item Comments*

Print Close



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	15.965	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	15
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	33
<b>Operating Time in Hours per Year:</b>	3465
<b>Percent of Operation During Winter:</b>	35
<b>Percent of Operation During Spring:</b>	20
<b>Percent of Operation During Summer:</b>	10
<b>Percent of Operation During Fall:</b>	35

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.305	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.014	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	1.102	tons/y	Actual stack test
<b>Particulate Matter (10 microns or less):</b>	0.113	tons/y	Manufacturer Specification
<b>Particulate Matter (2.5 microns or less):</b>	0.113	tons/y	Manufacturer Specification
<b>Particulate Matter (total suspended):</b>	0.113	tons/y	Manufacturer Specification
<b>Sulfur Dioxide:</b>	0.005	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.048	tons/y	Manufacturer Specification

**Subject Item Comments**

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-30**Designation:** TA-55-6-BHW-2**Description:** Sellers Boiler TA-55-6-BHW-2**Type:** Boiler**SCC:** External Combustion Boilers,  
Electric Generation, Natural Gas,  
Boilers < 100 Million Btu/hr  
except Tangential**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	8.123	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	0.155	tons/y	Manufacturer Specification
<b>Formaldehyde:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.007	tons/y	EPA emission factors (e.g., AP-42)
<b>Lead:</b>	0.0	tons/y	Manufacturer Specification
<b>Nitrogen Dioxide:</b>	0.56	tons/y	Actual stack test
<b>Particulate Matter (10 microns or less):</b>	0.058	tons/y	Manufacturer Specification
<b>Particulate Matter (2.5 microns or less):</b>	0.058	tons/y	Manufacturer Specification
<b>Particulate Matter (total suspended):</b>	0.058	tons/y	Manufacturer Specification
<b>Sulfur Dioxide:</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.024	tons/y	Manufacturer Specification

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-53**Designation:** TA-16-1484-BS-2**Description:** Low NOx Boiler TA-16-1484-BS-2**Type:** Boiler**SCC:** External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	9.832	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Ash of Fuel:</b>	0.0	percent

**Operating Detail**

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

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.182	tons/y	Design calculation
<b>Hexane:</b>	0.009	tons/y	Design calculation
<b>Lead:</b>	0.0	tons/y	Design calculation
<b>Nitrogen Dioxide:</b>	0.182	tons/y	Design calculation
<b>Particulate Matter (10 microns or less):</b>	0.037	tons/y	Design calculation
<b>Particulate Matter (2.5 microns or less):</b>	0.037	tons/y	Design calculation
<b>Particulate Matter (total suspended):</b>	0.037	tons/y	Design calculation
<b>Sulfur Dioxide:</b>	0.003	tons/y	Design calculation
<b>Volatile Organic Compounds (VOC):</b>	0.027	tons/y	Design calculation

**Subject Item Comments**



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-90**Designation:** B-1**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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	1.159	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	0.022	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.017	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.015	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-104**Designation:** B-2**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
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	1.159	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.022	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.017	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.015	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-105**Designation:** B-3**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
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	1.159	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.022	tons/y	EPA emission factors (e.g., AP-42)
<b>Hexane:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.017	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.015	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-106**Designation:** B-4**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
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	0.0	MM SCF
<b>Fuel Heating Value:</b>	0.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.0	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	0.0	percent

**Operating Detail**

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

**Actual Pollutants**

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

**Subject Item Comments**

This unit has not been built.

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	0.0	MM SCF
<b>Fuel Heating Value:</b>	0.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.0	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	0.0	percent

**Operating Detail**

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

**Actual Pollutants**

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

**Subject Item Comments**

This unit has not been built.

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-134**Designation:** TA-16-1484-BS-1**Description:** Low NOx Boiler TA-16-1484-BS-1**Type:** Boiler**SCC:** External Combustion Boilers,  
Commercial/Institutional,  
Natural Gas, < 10 Million Btu/hr**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	9.832	MM SCF
<b>Fuel Heating Value:</b>	1021.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.182	tons/y	Design calculation
<b>Hexane:</b>	0.009	tons/y	Design calculation
<b>Lead:</b>	0.0	tons/y	Design calculation
<b>Nitrogen Dioxide:</b>	0.182	tons/y	Design calculation
<b>Particulate Matter (10 microns or less):</b>	0.037	tons/y	Design calculation
<b>Particulate Matter (2.5 microns or less):</b>	0.037	tons/y	Design calculation
<b>Particulate Matter (total suspended):</b>	0.037	tons/y	Design calculation
<b>Sulfur Dioxide:</b>	0.003	tons/y	Design calculation
<b>Volatile Organic Compounds (VOC):</b>	0.027	tons/y	Design calculation

**Subject Item Comments**



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Diesel	
<b>Input Materials Processed:</b>	Diesel (INPUT)	
<b>Materials Consumed:</b>	0.0	gal
<b>Fuel Heating Value:</b>	138.0	MM BTU/M gal
<b>Percent Sulfur of Fuel:</b>	0.05	percent
<b>Percent Ash of Fuel:</b>	0.01	percent
<b>Percent Carbon Content:</b>	83.0	percent

**Operating Detail**

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

**Actual Pollutants**

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

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Diesel	
<b>Input Materials Processed:</b>	Diesel (INPUT)	
<b>Materials Consumed:</b>	0.0	gal
<b>Fuel Heating Value:</b>	138.0	MM BTU/M gal
<b>Percent Sulfur of Fuel:</b>	0.05	percent
<b>Percent Ash of Fuel:</b>	0.01	percent
<b>Percent Carbon Content:</b>	83.0	percent

**Operating Detail**

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

**Actual Pollutants**

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

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Diesel	
<b>Input Materials Processed:</b>	Diesel (INPUT)	
<b>Materials Consumed:</b>	0.0	gal
<b>Fuel Heating Value:</b>	138.0	MM BTU/M gal
<b>Percent Sulfur of Fuel:</b>	0.05	percent
<b>Percent Ash of Fuel:</b>	0.01	percent
<b>Percent Carbon Content:</b>	83.0	percent

**Operating Detail**

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

**Actual Pollutants**

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

**Subject Item Comments**



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-144**Designation:** All Boilers**Description:** Natural Gas and No. 2 Fuel  
Boilers (cap)**Type:** Boiler**SCC:** External Combustion Boilers,  
Electric Generation, Natural Gas,  
Boilers > 100 Million Btu/hr  
except Tangential**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

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

**Operating Detail**

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

**Actual Pollutants**

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

**Subject Item Comments**

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.

---

[Print](#)[Close](#)

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-119**Designation:** TA-33-G-2

Kohler Diesel Generator

**Description:** TA-33-G-2 (temp located to TA-39)**Type:** Internal combustion engine**SCC:** Internal Combustion Engines,  
Electric Generation, Distillate Oil  
(Diesel), Reciprocating**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Diesel	
<b>Input Materials Processed:</b>	Diesel (INPUT)	
<b>Materials Consumed:</b>	21.59	gal
<b>Fuel Heating Value:</b>	138.0	MM BTU/M gal
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.01	percent
<b>Percent Carbon Content:</b>	83.0	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	2
<b>Operating Time in Days per Week:</b>	2
<b>Operating Time in Weeks per Year:</b>	10
<b>Operating Time in Hours per Year:</b>	13
<b>Percent of Operation During Winter:</b>	50
<b>Percent of Operation During Spring:</b>	0
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	50

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.001	tons/y	Design calculation
<b>Nitrogen Dioxide:</b>	0.005	tons/y	Design calculation
<b>Particulate Matter (10 microns or less):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

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

Tuesday, March 17, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-120**Designation:** TA-33-G-3

Kohler Diesel Generator

**Description:** TA-33-G-3 (temp located to TA-39)**Type:** Internal combustion engine**SCC:** Internal Combustion Engines,  
Electric Generation, Distillate Oil  
(Diesel), Reciprocating**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Diesel	
<b>Input Materials Processed:</b>	Diesel (INPUT)	
<b>Materials Consumed:</b>	28.4	gal
<b>Fuel Heating Value:</b>	138.0	MM BTU/M gal
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.01	percent
<b>Percent Carbon Content:</b>	83.0	percent

**Operating Detail**

	<b>Value</b>
<b>Operating Time in Hours per Day:</b>	2
<b>Operating Time in Days per Week:</b>	2
<b>Operating Time in Weeks per Year:</b>	10
<b>Operating Time in Hours per Year:</b>	17
<b>Percent of Operation During Winter:</b>	50
<b>Percent of Operation During Spring:</b>	0
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	50

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Carbon Monoxide:</b>	0.002	tons/y	Design calculation
<b>Nitrogen Dioxide:</b>	0.007	tons/y	Design calculation
<b>Particulate Matter (10 microns or less):</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-128**Designation:** 3 Generators

3 Cummins Diesel Powered

**Description:** Generators, CMRR-GEN-1,  
CMRR-GEN-2, and CMRR-GEN-3**Type:** Internal combustion engine**SCC:** Internal Combustion Engines,  
Industrial, Distillate Oil (Diesel),  
Reciprocating: Cogeneration**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Distillate Oil (Diesel)	
<b>Materials Consumed:</b>	4278.7	gal

**Operating Detail**

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

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.217	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.991	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.031	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.031	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.031	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.017	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.031	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

Print

Close

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 Submittal (In Process)**Subject Item ID:** EQPT-135**Designation:** TA-33-G-4**Description:** Caterpillar Diesel Generator  
TA-33-G-4**Type:** Internal combustion engine**SCC:** Internal Combustion Engines,  
Electric Generation, Distillate Oil  
(Diesel), Reciprocating**GHG Reporting:** Reports GHG to EPA**Supplemental Parameters**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Diesel	
<b>Input Materials Processed:</b>	Diesel (INPUT)	
<b>Materials Consumed:</b>	300.2	gal
<b>Fuel Heating Value:</b>	138.0	MM BTU/M gal
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.01	percent
<b>Percent Carbon Content:</b>	83.0	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	24
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	19
<b>Percent of Operation During Winter:</b>	50
<b>Percent of Operation During Spring:</b>	50
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	0

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.019	tons/y	Design calculation
<b>Nitrogen Dioxide:</b>	0.09	tons/y	Design calculation
<b>Particulate Matter (10 microns or less):</b>	0.007	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.007	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.007	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.007	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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**

	Amount	Unit of Measure
<b>Fuel Type:</b>	Diesel	
<b>Materials Consumed:</b>	47.5	gal
<b>Fuel Heating Value:</b>	138.0	MM BTU/M gal
<b>Percent Sulfur of Fuel:</b>	0.001	percent

**Operating Detail**

	Value
<b>Operating Time in Hours per Day:</b>	1
<b>Operating Time in Days per Week:</b>	1
<b>Operating Time in Weeks per Year:</b>	1
<b>Operating Time in Hours per Year:</b>	3
<b>Percent of Operation During Winter:</b>	50
<b>Percent of Operation During Spring:</b>	50
<b>Percent of Operation During Summer:</b>	0
<b>Percent of Operation During Fall:</b>	0

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Carbon Monoxide:</b>	0.009	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.04	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (10 microns or less):</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**

Print

Close



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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
<b>Operating Time in Hours per Day:</b>	4
<b>Operating Time in Days per Week:</b>	1
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	208
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>TCE; (Trichloroethylene); (Trichloroethene):</b>	0.005	tons/y	Material balance

**Subject Item Comments**

Print

Close



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

Tuesday, March 17, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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
<b>Operating Time in Hours per Day:</b>	24
<b>Operating Time in Days per Week:</b>	7
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	8760
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Acetaldehyde; (Ethyl aldehyde):</b>	0.0	tons/y	Material balance
<b>Acetonitrile; (Methyl cyanide):</b>	0.199	tons/y	Material balance
<b>Acetophenone:</b>	0.0	tons/y	Material balance
<b>Acrylamide:</b>	0.001	tons/y	Material balance
<b>Acrylic acid:</b>	0.0	tons/y	Material balance
<b>Acrylonitrile:</b>	0.0	tons/y	Material balance
<b>Ammonia:</b>	0.0	tons/y	Material balance
<b>Aniline:</b>	0.003	tons/y	Material balance
<b>Antimony:</b>	0.0	tons/y	Material balance
<b>Antimony compounds:</b>	0.0	tons/y	Material balance
<b>Arsenic Compounds:</b>	0.0	tons/y	Material balance
<b>Benzene:</b>	0.014	tons/y	Material balance
<b>Benzyl Chloride:</b>	0.001	tons/y	Material balance
<b>Biphenyl:</b>	0.0	tons/y	Material balance
<b>Bromoform; (Tribromomethane):</b>	0.0	tons/y	Material balance
<b>Butadiene(1,3-):</b>	0.0	tons/y	Material balance
<b>Cadmium:</b>	0.0	tons/y	Material balance
<b>Cadmium compounds:</b>	0.007	tons/y	Material balance
<b>Carbon Disulfide:</b>	0.0	tons/y	Material balance

<b>Carbon tetrachloride; (Tetrachloromethane):</b>	0.004	tons/y	Material balance
<b>Carbonyl sulfide:</b>	0.0	tons/y	Material balance
<b>Catechol (Pyrocatechol):</b>	0.0	tons/y	Material balance
<b>Chlorine:</b>	0.546	tons/y	Material balance
<b>Chloroacetic Acid:</b>	0.0	tons/y	Material balance
<b>Chlorobenzene(Phenyl Chloride):</b>	0.003	tons/y	Material balance
<b>Chloroform; (Trichloromethane):</b>	0.168	tons/y	Material balance
<b>Chromium:</b>	0.0	tons/y	Material balance
<b>Chromium VI compounds:</b>	0.011	tons/y	Material balance
<b>Cobalt Compounds:</b>	0.017	tons/y	Material balance
<b>Cresol(m-); (Methylphenol, 3-):</b>	0.0	tons/y	Material balance
<b>Cumene:</b>	0.0	tons/y	Material balance
<b>Cyanide compounds:</b>	0.004	tons/y	Material balance
<b>Dibutylphthalate; (Di-n-butyl phthalate):</b>	0.003	tons/y	Material balance
<b>Dichloroethane (1,2-); (EDC); (Ethylene dichloride):</b>	0.003	tons/y	Material balance
<b>Diethanolamine:</b>	0.0	tons/y	Material balance
<b>Dimethyl Sulfate:</b>	0.0	tons/y	Material balance
<b>Dimethyl formamide:</b>	0.012	tons/y	Material balance
<b>Dimethylhydrazine(1,1-):</b>	0.0	tons/y	Material balance
<b>Dioxane(1,4-) (1,4-Diethyleneoxide):</b>	0.001	tons/y	Material balance
<b>Epichlorohydrin; (1-Chloro-2,3-epoxypropane):</b>	0.0	tons/y	Material balance
<b>Epoxybutane(1,2-) (1,2-Butylene oxide):</b>	0.0	tons/y	Material balance
<b>Ethyl Acrylate:</b>	0.0	tons/y	Material balance
<b>Ethyl chloride; (Chloroethane):</b>	0.0	tons/y	Material balance
<b>Ethylbenzene:</b>	0.016	tons/y	Material balance
<b>Ethylene Glycol:</b>	0.139	tons/y	Material balance
<b>Ethylene dibromide; (EDB); (1,2-Dibromoethane):</b>	0.0	tons/y	Material balance
<b>Formaldehyde:</b>	0.001	tons/y	Material balance
<b>Glycol Ethers:</b>	0.219	tons/y	Material balance
<b>Hexachlorocyclopentadiene:</b>	0.0	tons/y	Material balance
<b>Hexamethylphosphoramide:</b>	0.001	tons/y	Material balance
<b>Hexane:</b>	0.378	tons/y	Material balance
<b>Hydrazine:</b>	0.001	tons/y	Material balance
<b>Hydrochloric acid (HCl):</b>	1.411	tons/y	Material balance
<b>Hydrofluoric Acid; (Hydrogen fluoride):</b>	0.048	tons/y	Material balance
<b>Hydroquinone:</b>	0.066	tons/y	Material balance
<b>Iodomethane (Methyl iodide):</b>	0.001	tons/y	Material balance
<b>Lead Compounds:</b>	0.002	tons/y	Material balance
<b>Maleic anhydride:</b>	0.001	tons/y	Material balance
<b>Manganese:</b>	0.0	tons/y	Material balance
<b>Manganese compounds:</b>	0.008	tons/y	Material balance
<b>Mercury compounds:</b>	0.0	tons/y	Material balance
<b>Methanol; (Methyl alcohol):</b>	0.558	tons/y	Material balance
<b>Methyl Ethyl Ketone; (MEK); (2-Butanone):</b>	0.0	tons/y	Material balance
<b>Methyl Methacrylate:</b>	0.0	tons/y	Material balance
<b>Methyl bromide; (Bromomethane):</b>	0.0	tons/y	Material balance
<b>Methyl chloride; (Chloromethane):</b>	0.001	tons/y	Material balance
<b>Methyl isobutyl ketone; (Hexone); (4-Methyl-2-pentanone):</b>	0.0	tons/y	Material balance
<b>Methyl tert butyl ether:</b>	0.008	tons/y	Material balance

<b>Methylene chloride; (Dichloromethane):</b>	0.662	tons/y	Material balance
<b>Methylenebiphenyl isocyanate; (MDI); (Diphenylmethane diisocyanate):</b>	0.133	tons/y	Material balance
<b>Naphthalene:</b>	0.0	tons/y	Material balance
<b>Nickel:</b>	0.0	tons/y	Material balance
<b>Nickel compounds:</b>	0.017	tons/y	Material balance
<b>Nitrobenzene; (nitro-Benzene):</b>	0.0	tons/y	Material balance
<b>Nitrophenol(4-); (p-Nitrophenol):</b>	0.0	tons/y	Material balance
<b>PCE; (Perchloroethylene); (Tetrachloroethylene); (Tetrachloroethene):</b>	0.011	tons/y	Material balance
<b>Phenol:</b>	0.0	tons/y	Material balance
<b>Phenylenediamine(p-); (Phenylenediamine):</b>	0.0	tons/y	Material balance
<b>Phosphine:</b>	0.0	tons/y	Material balance
<b>Phosphorus:</b>	0.0	tons/y	Material balance
<b>Phthalic anhydride:</b>	0.0	tons/y	Material balance
<b>Polycyclic Organic Matter:</b>	0.001	tons/y	Material balance
<b>Propylene Dichloride (1,2-Dichloropropane):</b>	0.159	tons/y	Material balance
<b>Propylene oxide:</b>	0.0	tons/y	Material balance
<b>Selenium:</b>	0.0	tons/y	Material balance
<b>Selenium compounds:</b>	0.0	tons/y	Material balance
<b>Styrene:</b>	0.001	tons/y	Material balance
<b>TCE; (Trichloroethylene); (Trichloroethene):</b>	0.012	tons/y	Material balance
<b>Tetrachloroethane(1,1,2,2-):</b>	0.0	tons/y	Material balance
<b>Titanium tetrachloride:</b>	0.0	tons/y	Material balance
<b>Toluene diisocyanate(2,4-):</b>	0.0	tons/y	Material balance
<b>Toluene; (Methyl benzene):</b>	0.17	tons/y	Material balance
<b>Total HAP:</b>	5.06	tons/y	Material balance
<b>Trichloroethane(1,1,1-) (Methyl Chloroform):</b>	0.006	tons/y	Material balance
<b>Trichloroethane(1,1,2-):</b>	0.0	tons/y	Material balance
<b>Triethylamine:</b>	0.001	tons/y	Material balance
<b>Trimethylpentane(2,2,4-):</b>	0.0	tons/y	Material balance
<b>Urethane; (Ethyl carbamate):</b>	0.0	tons/y	Material balance
<b>Vinyl acetate; (Vinyl acetate monomer):</b>	0.005	tons/y	Material balance
<b>Volatile Organic Compounds (VOC):</b>	10.86	tons/y	Material balance
<b>Xylene(o-); (1,2-Dimethylbenzene); (ortho-Xylene):</b>	0.001	tons/y	Material balance
<b>Xylene(p-); (1,4-Dimethylbenzene); (para-Xylene):</b>	0.001	tons/y	Material balance
<b>Xylenes (total); (Xylol):</b>	0.017	tons/y	Material balance
<b>bis(2-ethylhexyl) phthalate; (Di-2-ethylhexyl phthalate); (DEHP):</b>	0.0	tons/y	Material balance

*Subject Item Comments*

Print Close



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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
<b>Operating Time in Hours per Day:</b>	7
<b>Operating Time in Days per Week:</b>	5
<b>Operating Time in Weeks per Year:</b>	52
<b>Operating Time in Hours per Year:</b>	1820
<b>Percent of Operation During Winter:</b>	25
<b>Percent of Operation During Spring:</b>	25
<b>Percent of Operation During Summer:</b>	25
<b>Percent of Operation During Fall:</b>	25

**Actual Pollutants**

Pollutant	Amount	Unit of Measure	Calculation Method
<b>Particulate Matter (10 microns or less):</b>	0.06	tons/y	Manufacturer Specification
<b>Particulate Matter (2.5 microns or less):</b>	0.04	tons/y	Manufacturer Specification
<b>Particulate Matter (total suspended):</b>	0.07	tons/y	Manufacturer Specification

**Subject Item Comments**

Print

Close



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

Thursday, March 05, 2015

**Agency ID:** 856**Facility Name:** Los Alamos National Laboratory**Organization Name:** U.S. Department of Energy National Nuclear Security Administration**Submittal Status:** 2014 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**

	<b>Amount</b>	<b>Unit of Measure</b>
<b>Fuel Type:</b>	Natural Gas	
<b>Input Materials Processed:</b>	Natural Gas (INPUT)	
<b>Materials Consumed:</b>	39.0	MM SCF
<b>Fuel Heating Value:</b>	1020.0	MM BTU/MM SCF
<b>Percent Sulfur of Fuel:</b>	0.001	percent
<b>Percent Ash of Fuel:</b>	0.0	percent
<b>Percent Carbon Content:</b>	65.0	percent

**Operating Detail**

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

**Actual Pollutants**

<b>Pollutant</b>	<b>Amount</b>	<b>Unit of Measure</b>	<b>Calculation Method</b>
<b>Acetaldehyde; (Ethyl aldehyde):</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Carbon Monoxide:</b>	0.205	tons/y	EPA emission factors (e.g., AP-42)
<b>Copper:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Ethylbenzene:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Formaldehyde:</b>	0.014	tons/y	EPA emission factors (e.g., AP-42)
<b>Lead:</b>	0.0	tons/y	EPA emission factors (e.g., AP-42)
<b>Manganese:</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Nickel:</b>	0.002	tons/y	EPA emission factors (e.g., AP-42)
<b>Nitrogen Dioxide:</b>	0.984	tons/y	EPA emission factors (e.g., AP-42)

<b>Particulate Matter (10 microns or less):</b>	0.133	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (2.5 microns or less):</b>	0.133	tons/y	EPA emission factors (e.g., AP-42)
<b>Particulate Matter (total suspended):</b>	0.133	tons/y	EPA emission factors (e.g., AP-42)
<b>Propylene oxide:</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)
<b>Sulfur Dioxide:</b>	0.068	tons/y	EPA emission factors (e.g., AP-42)
<b>Toluene; (Methyl benzene):</b>	0.003	tons/y	EPA emission factors (e.g., AP-42)
<b>Volatile Organic Compounds (VOC):</b>	0.043	tons/y	EPA emission factors (e.g., AP-42)
<b>Xylenes (total); (Xylol):</b>	0.001	tons/y	EPA emission factors (e.g., AP-42)

**Subject Item Comments**[Print](#)[Close](#)