

# 2022 Emissions Report

In Process



## Release Points

Release Point

Location

Additional Information

**Identifier:**

EP-001

**Type:**

Vertical

**Description:**

Diesel Generator Stack

**Status:**

Operating

**Status Year:**

**Stack Height:**

67.0

FEET

**Stack Shape:**

Circular  Rectangular

**Stack Diameter:**

0.50

FEET

**Exit Gas Temp:**

400

'F

**Exit Gas Flow Rate:**

7795

ACFM - ACTUAL CUBIC FEET PER M

**Exit Gas Velocity:**

39699.609

FPM - FEET PER MINUTE

**Fence Line Distance:**

FEET

**Related Unit Processes:**

EU-001 - Diesel Generator, EU-001 -1 - Diesel Generator

**Comments:**

Delete

Cancel

Save

# 2022 Emissions Report

In Process



## Emission Units

Emission Unit

Additional Information

**Identifier:**

EU-001

**Type:**

160 - Reciprocating IC Engine

**Description:**

Diesel Generator

**Status:**

OP - Operating

**Status Year:**

**Operation Start Date:**

01-01-2010



**Design Capacity**

**Related Unit Processes:**

EU-001 -1 - Diesel Generator

**Comments:**

Delete

Cancel

Save

# 2022 Emissions Report

In Progress



## Unit Processes

- Unit Process
- Regulatory Programs
- Control Approach
- Release Point Apportionment
- Additional Information

### Process Identifier:

EU-001 -1

### Emission Unit Identifier:

EU-001 - Diesel Generator

### SCC:

Code:  ~ or ~

- 
- 
- 
- 

### Description:

Diesel Generator

### Status:

### Status Year:

### Related Process Emission:

EU-001 -1 - Diesel Generator

### Comments:

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In Progress



## Unit Processes

- Unit Process
- Regulatory Programs
- Control Approach
- Release Point Apportionment
- Additional Information

### Release Point Apportionment:



Release Point	%	
<input type="text" value="EP-001 - Diesel Generat"/>	<input type="text" value="100"/>	<input type="text"/>

# 2022 Emissions Report

In Process



## Process Emissions

Process

Operations

Emissions

### Process Identifier:

EU-001 -1 - Diesel Generator

### Emission Unit Identifier:

EU-001 - Diesel Generator

### SCC:

20200401

Internal Combustion Engines-Industrial-Other Fuels-Diesel: Large Bore Engine

### Process is Reported?:

Uncheck this box if there are no reportable emissions for the reporting year

### Annual Throughput:

266

### Throughput Unit of Measure:

E6BTU - MILLION BTUS

### Throughput Type:

I - Input

### Throughput Material:

44 - Diesel

### Supplemental Calculation Parameters:

% Ash

% Sulfur

Heat Content (MMBTU/Unit)

### Comments:

1,900 gallons fuel used \* 0.14 MMBtu/Gal = 266 MMBtu

Next



Cancel



Save

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## Process Emissions

- Process
- Operations**
- Emissions

🔍 Average Hours/Day:

1.06

🔍 Average Days/Week:

1.00

🔍 Average Weeks/Year:

8.00

🔍 Actual Hours/Year:

8.5

### Seasonal Operations:

🔍 December-February

25.5 %

🔍 March-May

23.5 %

🔍 June-August

23.5 %

🔍 September-November

27.5 %

# 2022 Emissions Report

In Process



## Process Emissions

- Process
- Operations
- Emissions**

Filter:  x

Pollutant:	Emis. Factor (Lbs/Unit):	Emis. Factor UOM:	Calculation Method:	Estimated Emis. (Tons):
▶ PM25-PRI	0.05	E6BTU	28 - USEPA EF (pre-control)	0.00665
▶ PM10-PRI	0.14	E6BTU	28 - USEPA EF (pre-control)	0.01862
▶ SO2	0.505	E6BTU	28 - USEPA EF (pre-control)	0.067165
▶ NOX	3.2	E6BTU	28 - USEPA EF (pre-control)	0.4256
▶ VOC	0.0819	E6BTU	28 - USEPA EF (pre-control)	0.0108926999999999
▶ CO	0.85	E6BTU	28 - USEPA EF (pre-control)	0.1130499999999999

# 2022 Emissions Report

In Process



## Process Emissions

- Process
- Operations
- Emissions**

Filter:

Pollutant:	Emis. Factor (Lbs/Unit):	Emis. Factor UOM:	Calculation Method:	Estimated Emis. (Tons):
▼ PM25-PRI	0.05	E6BTU	28 - USEPA EF (pre-control)	0.00665
<b>Pollutant Code:</b> PM25-PRI - PM2.5 Primary (Filt + Cond)		<b>Calculation Method:</b> 28 - USEPA EF (pre-control)		
<b>Emission Factor (Lbs/Unit):</b> 0.05		<b>Emission Factor Unit:</b> E6BTU - MILLION BTUS		
<b>Estimated Emissions (Tons):</b> 0.00665		<b>Overall Control Efficiency (%):</b> 0%		
<b>Comment:</b> 0.05 lbs PM2.5/MMBtu diesel burned 0.05 lb/MMBtu * 266 MMBtu * 1 ton/2000 lbs = 0.00665 tons PM2.5				
▼ PM10-PRI	0.14	E6BTU	28 - USEPA EF (pre-control)	0.01862
<b>Pollutant Code:</b> PM10-PRI - PM10 Primary (Filt + Cond)		<b>Calculation Method:</b> 28 - USEPA EF (pre-control)		
<b>Emission Factor (Lbs/Unit):</b> 0.14		<b>Emission Factor Unit:</b> E6BTU - MILLION BTUS		
<b>Estimated Emissions (Tons):</b> 0.01862		<b>Overall Control Efficiency (%):</b> 0%		
<b>Comment:</b> 0.14 lbs PM10/MMBtu diesel burned 0.14 lb/MMBtu * 266 MMBtu * 1 ton/2000 lbs = 0.01862 tons PM10				
▼ SO2	0.505	E6BTU	28 - USEPA EF (pre-control)	0.067165
<b>Pollutant Code:</b> SO2 - Sulfur Dioxide		<b>Calculation Method:</b> 28 - USEPA EF (pre-control)		
<b>Emission Factor (Lbs/Unit):</b> 0.505		<b>Emission Factor Unit:</b> E6BTU - MILLION BTUS		
<b>Estimated Emissions (Tons):</b> 0.067165		<b>Overall Control Efficiency (%):</b> 0%		
<b>Comment:</b> SO2 emissions factor is (1.01 * % sulfur) lbs/MMBtu. Low sulfur diesel is 0.5% sulfur 1.01 * 0.5 = 0.505 lbs/MMBtu 0.505 lbs SO2/MMBtu * 266 MMBtu * 1 ton/2,000 lbs = 0.07 tons				

## Individual pollutant calculations continued:

▼ NOX      3.2                                  E6BTU                                  28 - USEPA EF (pre-control)                                  0.4256

**Pollutant Code:**  
NOX - Nitrogen Oxides

**Calculation Method:**  
28 - USEPA EF (pre-control)

**Emission Factor (Lbs/Unit):**  
3.2

**Emission Factor Unit:**  
E6BTU - MILLION BTUS

**Estimated Emissions (Tons):**  
0.4256

**Overall Control Efficiency (%):**  
0%

**Comment:**  
3.2 lbs NOx/MMBtu diesel burned 3.2 lb/MMBtu \* 266 MMBtu \* 1 ton/2000 lbs = 0.4256 tons NOx

▼ VOC      0.0819                                  E6BTU                                  28 - USEPA EF (pre-control)                                  0.0108926999999999

**Pollutant Code:**  
VOC - Volatile Organic Compounds

**Calculation Method:**  
28 - USEPA EF (pre-control)

**Emission Factor (Lbs/Unit):**  
0.0819

**Emission Factor Unit:**  
E6BTU - MILLION BTUS

**Estimated Emissions (Tons):**  
0.0108926999999999

**Overall Control Efficiency (%):**  
0%

**Comment:**  
0.0819 lbs VOC/MMBtu diesel burned 0.0819 lb/MMBtu \* 266 MMBtu \* 1 ton/2000 lbs = 0.0109 tons VOC

▼ CO      0.85    E6BTU                                  28 - USEPA EF (pre-control)                                  0.1130499999999999

**Pollutant Code:**  
CO - Carbon Monoxide

**Calculation Method:**  
28 - USEPA EF (pre-control)

**Emission Factor (Lbs/Unit):**  
0.85

**Emission Factor Unit:**  
E6BTU - MILLION BTUS

**Estimated Emissions (Tons):**  
0.1130499999999999

**Overall Control Efficiency (%):**  
0%

**Comment:**  
0.85 lbs CO/MMBtu diesel burned 0.85 lb/MMBtu \* 266 MMBtu \* 1 ton/2000 lbs = 0.113 tons CO