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 Process

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: 20200401 ~ or ~

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

Description:

Diesel Generator

Status:

OP - Operating

Status Year:

Related Process Emission:

EU-001 -1 - Diesel Generator

Comments:

2022 Emissions Report

In Process

Unit Processes

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

Release Point Apportionment:

Release Point	%
EP-001 - Diesel Generat	100

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

2022 Emissions Report

In Process

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	March-May	June-August
25.5 %	23.5 %	23.5 %

September-November
27.5 %

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
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)	0.010892699999999
CO	0.85	E6BTU	28 - USEPA EF (pre-control)	0.113049999999999

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

Pollutant Code:
PM25-PRI - PM2.5 Primary (Filt + Cond)

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

Emission Factor (Lbs/Unit):
0.05

Emission Factor Unit:
E6BTU - MILLION BTUS

Estimated Emissions (Tons):
0.00665

Overall Control Efficiency (%):
0%

Comment:
0.05 lbs PM2.5/MMBtu diesel burned 0.05 lb/MMBtu * 266 MMBtu * 1 ton/2000 lbs = 0.00665 tons PM2.5

Pollutant:	Emis. Factor (Lbs/Unit):	Emis. Factor UOM:	Calculation Method:	Estimated Emis. (Tons):
PM10-PRI	0.14	E6BTU	28 - USEPA EF (pre-control)	0.01862

Pollutant Code:
PM10-PRI - PM10 Primary (Filt + Cond)

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

Emission Factor (Lbs/Unit):
0.14

Emission Factor Unit:
E6BTU - MILLION BTUS

Estimated Emissions (Tons):
0.01862

Overall Control Efficiency (%):
0%

Comment:
0.14 lbs PM10/MMBtu diesel burned 0.14 lb/MMBtu * 266 MMBtu * 1 ton/2000 lbs = 0.01862 tons PM10

Pollutant:	Emis. Factor (Lbs/Unit):	Emis. Factor UOM:	Calculation Method:	Estimated Emis. (Tons):
SO2	0.505	E6BTU	28 - USEPA EF (pre-control)	0.067165

Pollutant Code:
SO2 - Sulfur Dioxide

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

Emission Factor (Lbs/Unit):
0.505

Emission Factor Unit:
E6BTU - MILLION BTUS

Estimated Emissions (Tons):
0.067165

Overall Control Efficiency (%):
0%

Comment:
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)	0.010892699999999

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):
0.010892699999999

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)	0.113049999999999

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):
0.113049999999999

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