

**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AIR QUALITY DIVISION**

May 9, 2023

PERMIT TO INSTALL

294-06A

ISSUED TO

Sparrow Health Services

LOCATED AT

1215 East Michigan Avenue
Lansing, Michigan 48912

IN THE COUNTY OF

Ingham

STATE REGISTRATION NUMBER

M2017

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: April 11, 2023	
DATE PERMIT TO INSTALL APPROVED: May 9, 2023	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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COMMON ACRONYMS

AQD	Air Quality Division
BACT	Best Available Control Technology
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
COMS	Continuous Opacity Monitoring System
Department/department/EGLE	Michigan Department of Environment, Great Lakes, and Energy
EU	Emission Unit
FG	Flexible Group
GACS	Gallons of Applied Coating Solids
GC	General Condition
GHGs	Greenhouse Gases
HVLP	High Volume Low Pressure*
ID	Identification
IRSL	Initial Risk Screening Level
ITSL	Initial Threshold Screening Level
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MAERS	Michigan Air Emissions Reporting System
MAP	Malfunction Abatement Plan
MSDS	Material Safety Data Sheet
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standard for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NSR	New Source Review
PS	Performance Specification
PSD	Prevention of Significant Deterioration
PTE	Permanent Total Enclosure
PTI	Permit to Install
RACT	Reasonable Available Control Technology
ROP	Renewable Operating Permit
SC	Special Condition
SCR	Selective Catalytic Reduction
SNCR	Selective Non-Catalytic Reduction
SRN	State Registration Number
TBD	To Be Determined
TEQ	Toxicity Equivalence Quotient
USEPA/EPA	United States Environmental Protection Agency
VE	Visible Emissions

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO ₂ e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H ₂ S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO _x	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO ₂	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal condition or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Flexible Group ID
EUBOILER1	A natural gas/distillate oil fired Johnston firetube package boiler with a maximum rated heat input capacity of 32.2 million Btu per hour.	FGBOILERS
EUBOILER2	A natural gas/distillate oil fired Johnston firetube package boiler with a maximum rated heat input capacity of 32.2 million Btu per hour.	FGBOILERS
EUBOILER3	A natural gas/distillate oil fired Johnston firetube package boiler with a maximum rated heat input capacity of 32.2 million Btu per hour.	FGBOILERS
EUGENERATOR1	Cummins model QSK60-G6 diesel fired emergency generator with a rated heat input capacity of 19 million Btu per hour.	FGGENERATORS
EUGENERATOR2	Cummins model QSK60-G6 diesel fired emergency generator with a rated heat input capacity of 19 million Btu per hour.	FGGENERATORS
EUGENERATOR3	Cummins model QSK60-G6 diesel fired emergency generator with a rated heat input capacity of 19 million Btu per hour.	FGGENERATORS
EUGENERATOR4	Cummins model QSK60-G6 diesel fired emergency generator with a rated heat input capacity of 19 million Btu per hour.	FGGENERATORS
EUGENERATOR5	A 2919 HP (2000 kilowatts (kW)) diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of 3.76 liters/cylinder.	NA

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

EUGENERATOR5 EMISSION UNIT CONDITIONS

DESCRIPTION

A 2919 HP (2000 kilowatts (kW)) diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of 3.76 liters/cylinder.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. NMHC + NOx ^A	6.4 g/kW-hr	Hourly ^A	EUGENERATOR5	SC V.1 SC VI.2	40 CFR 60.4205(b), 40 CFR 60.4202, Table 2 of Appendix I of 40 CFR 1039
2. CO ^A	3.5 g/kW-hr	Hourly ^A	EUGENERATOR5	SC V.1 SC VI.2	40 CFR 60.4205(b), 40 CFR 60.4202, Table 2 of Appendix I of 40 CFR 1039
3. PM ^A	0.2 g/kW-hr	Hourly ^A	EUGENERATOR5	SC V.1 SC VI.2	40 CFR 60.4205(b), 40 CFR 60.4202, Table 2 of Appendix I of 40 CFR 1039

^AThese emission limits are for certified engines; if testing becomes required to demonstrate compliance, then the tested values must be compared to the Not to Exceed (NTE) requirements determined through 40 CFR 60.4212(c)

II. MATERIAL LIMIT(S)

- The permittee shall burn only diesel fuel in EUENEUGENERATOR5 with a maximum sulfur content of 15 ppm (0.0015 percent) by weight and a minimum Cetane index of 40 or a maximum aromatic content of 35 volume percent. **(R 336.1205(1)(a) & (3), 40 CFR 60.4207, 40 CFR 1090.305)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not operate EUGENERATOR5 for more than 335 hours per year based on a 12-month rolling time period as determined at the end of each calendar month. The 335 hours includes the hours for the purpose of necessary maintenance checks and readiness testing as described in SC III.2. **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d))**
- The permittee may operate EUGENERATOR5 for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. **(40 CFR 60.4211(f)(2))**

3. The permittee may operate EUGENERATOR5 up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted as part of the 100 hours per calendar year provided for maintenance and testing as provided in 40 CFR 60.4211(f)(2). Except as provided in 40 CFR 60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. **(40 CFR 60.4211(f)(3))**
4. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60, Subpart IIII, for the same model year, the permittee shall meet the following requirements for EUGENERATOR5:
 - a) Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions,
 - b) Change only those emission-related settings that are permitted by the manufacturer, and
 - c) Meet the requirements as specified in 40 CFR 1068, as they apply to the engine.If you do not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. **(40 CFR 60.4211(a) & (c))**
5. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for EUGENERATOR5 and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4211(g)(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain EUGENERATOR5 with non-resettable hours meters to track the operating hours. **(R 336.1205(1)(a) & (3), R 336.1225, 40 CFR 60.4209)**
2. The maximum rated power output of EUGENERATOR5 shall not exceed 2919 HP (2000 kW), as certified by the equipment manufacturer. **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1702(a), 40 CFR 60.4202, 40 CFR 60.4205, 40 CFR 1039, 40 CFR 1042)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. If EUGENERATOR5 is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:
 - a) Conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.
 - b) If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4212 (less than 30 liters).
 - c) Conduct subsequent performance testing every 8,760 hours of engine operation or every 3 years thereafter, whichever comes first, to demonstrate compliance with the applicable emission standards.

No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(40 CFR 60.4211(g)(3), 40 CFR 60.4212)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(1)(a) & (3), R 336.1225, 40 CFR 52.21(c) & (d), 40 CFR Part 60, Subpart IIII)**
2. The permittee shall keep, in a satisfactory manner, the following records for EUGENERATOR5:
 - a) For a certified engine: The permittee shall keep records of the manufacturer certification documentation.
 - b) For an uncertified engine: The permittee shall keep records of testing required in SC V.1.

The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4211)**

3. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for EUGENERATOR5:
 - a) For a certified engine: The permittee shall keep records of the manufacturer's emission-related written instructions, and records demonstrating that the engine has been maintained according to those instructions, as specified in SC III.4.
 - b) For an uncertified engine: The permittee shall keep records of a maintenance plan, as required by SC III.5, and maintenance activities.

The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4211)**

4. The permittee shall monitor and record, the total hours of operation for EUGENERATOR5 on a monthly and 12-month rolling time period basis, and the hours of operation during emergency and non-emergency service that are recorded through the non-resettable hour meter for EUGENERATOR5, on a calendar year basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation of EUGENERATOR5, including what classified the operation as emergency and how many hours are spent for non-emergency operation. **(R 336.1205(1)(a) & (3), 40 CFR 60.4211, 40 CFR 60.4214)**
5. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in EUGENERATOR5, demonstrating that the fuel meets the requirement of 40 CFR 1090.305. The certification or test data shall include the name of the oil supplier or laboratory, the sulfur content, and cetane index or aromatic content of the fuel oil. **(R 336.1205(1)(a) & (3), 40 CFR 60.4207(b), 40 CFR 1090.305)**

VII. REPORTING

1. The permittee shall submit a notification specifying whether EUGENERATOR5 will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of the engine and within 30 days of switching the manner of operation. **(40 CFR Part 60, Subpart IIII)**

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVGENERATOR5	26	48	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and IIII, as they apply to EUGENERATOR5. **(40 CFR Part 60, Subparts A & IIII, 40 CFR 63.6590(c))**
2. The permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and ZZZZ, as they apply to EUGENERATOR5. **(40 CFR Part 63, Subparts A & ZZZZ, 40 CFR 63.6585)**

FLEXIBLE GROUP SPECIAL CONDITIONS

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGBOILERS	Three natural gas/distillate oil fired Johnston firetube package boilers each with a maximum rated heat input capacity of 32.2 million Btu per hour.	EUBOILER1 EUBOILER2 EUBOILER3
FGGENERATORS	Four Cummins model QSK60-G6 diesel fired emergency generators each with a rated heat input capacity of 19 million Btu per hour.	EUGENERATOR1 EUGENERATOR2 EUGENERATOR3 EUGENERATOR4

**FGBOILERS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Three natural gas/distillate oil fired Johnston firetube package boilers each with a maximum rated heat input capacity of 32.2 million Btu per hour.

Emission Unit: EUBOILER1, EUBOILER2, EUBOILER3

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. NOx	0.12 lb/MMBTU, when burning natural gas	Test Protocol	Each boiler in FGBOILERS	GC 13	R 336.1205(3)
2. NOx	0.15 lb/MMBTU, when burning distillate oil	Test Protocol	Each boiler in FGBOILERS	GC 13	R 336.1205(3)
3. PM	0.030 lb/MMBTU (applicable at all times other than startup, shutdown, or malfunction)*	Test Protocol	Each boiler in FGBOILERS	S.C. V.1	40 CFR 60, Subpart Dc, Section 60.43c(e)(1)

*This limit is applicable only if required by 40 CFR 60, Subpart Dc.

4. Visible emissions from FGBOILERS shall not exceed 20 percent opacity except as specified in the federal Standards of Performance for New Stationary Sources, 40 CFR Part 60, Subparts A and Dc, Section 60.43c(c). The opacity standard applies at all times, except during periods of startup, shutdown, or malfunction. **[40 CFR 60, Subpart Dc, Section 60.43c (c) and (d)]**

II. MATERIAL LIMIT(S)

1. The permittee shall only use natural gas or distillate oil in FGBOILERS. **[R336.1201 (3)]**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The sulfur content of the fuel oil used in FGBOILERS shall not exceed 0.05 percent by weight. **[40 CFR 60, Subpart Dc, Section 60.42c(d), R336.1205(3)]**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. Within 180 days after commencement of initial operation (if required by 40 CFR 60, Subpart Dc), the permittee shall verify PM emission rates from FGBOILERS by testing at owner's expense, in accordance with Department requirements. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **[40 CFR 60, Subpart Dc, Section 60.45(c)]**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall record and maintain records of the amounts of each fuel combusted during each calendar month. All recordkeeping shall be done in a manner acceptable to the district supervisor, and shall be maintained for a period of at least five years. **[40 CFR 60, Subpart Dc, Section 60.48c(g)]**
2. The permittee shall maintain fuel certification records from the fuel oil supplier which, verify that the sulfur content of the fuel is in compliance with the sulfur in fuel limitation contained in special condition III.1. These records shall include the name of the oil supplier, and a statement from the oil supplier that the oil complies with the specifications under definition of distillate oil in 40 CFR 60, Subpart Dc, Section 60.41c. These records shall be maintained for a period of five years. **[40CFR 60, Subpart Dc, Section 60.48c(f)(1)]**

VII. REPORTING

1. The permittee shall submit notification of the date of construction, anticipated startup, and actual startup of FGBOILERS. This notification shall include:
 - The design heat input capacity of the boilers and identification of fuels to be combusted in the boilers
 - If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR Subpart Dc Section 60.42c or 60.43c.
 - The annual capacity factor at which the owner or operator anticipates operating the boilers based on all fuels fired and based on each individual fuel fired.
 - Notification if an emerging technology will be used for controlling SO₂ emissions.**[40 CFR 60, Subpart Dc, Section 60.48(c)]**

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBOILER1	26	47	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVBOILER2	26	47	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVBOILER3	26	47	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

**FGGENERATORS
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Four Cummins model QSK60-G6 diesel fired emergency generators each with a rated heat input capacity of 19 million Btu per hour.

Emission Unit: EUGENERATOR1, EUGENERATOR2, EUGENERATOR3, EUGENERATOR4

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. NOx	5.11 g/hp-hr	hourly	FGGENERATORS	GC 13	R336.1205(3)

II. MATERIAL LIMIT(S)

1. The permittee shall only use distillate oil in FGGENERATORS. **(R336.1201(3))**
2. The sulfur content of the fuel oil used in FGGENERATORS shall not exceed 0.05 percent by weight. **(R336.1205(3))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate each engine in FGGENERATORS for more than 335 hours per year based on a 12-month rolling time period as determined at the end of each calendar month. The 335 hours includes the hours for the purpose of necessary maintenance checks and readiness testing as described in SC III.2. **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in FGGENERATORS, demonstrating that the fuel meets the requirement of 40 CFR 1090.305. The certification or test data shall include the name of the oil supplier or laboratory, the sulfur content, and cetane index or aromatic content of the fuel oil. **(R 336.1205(1)(a) & (3), 40 CFR 60.4207(b), 40 CFR 1090.305)**
2. The permittee shall maintain records, on a monthly basis, of the operating hours of each generator, and the total generator-hours for FGGENERATORS. The permittee shall also calculate and maintain records of the generator-hours, based upon a rolling 12-month time period, as determined at the end of each calendar month. **(R336.1205(1)(a) & (3))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVGENERATOR1	16	14	R336.1201 (3)
2. SVGENERATOR2	16	14	R336.1201 (3)
3. SVGENERATOR3	16	14	R336.1201 (3)
4. SVGENERATOR4	16	14	R336.1201 (3)

IX. OTHER REQUIREMENT(S)

NA

FGFACILITY CONDITIONS

DESCRIPTION

The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. NO _x	89.3 tpy*	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.3	R 336.1205(1)(a) and (3)
*Emissions limited based upon each engine operating 335 hours per year as specified in SC III.1 and the maximum capacity of all equipment					

II. MATERIAL LIMIT(S)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate each engine for more than 335 hours per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1205(1)(a) and (3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain any engine in FGFACILITY with a non-resettable hour meter to track the operating hours. **(R 336.1205(1)(a) & (3))**

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(1)(a) & (3))**
2. The permittee shall keep, in a satisfactory manner, a written log of the monthly and 12-month rolling total hours of operation for each engine in FGFACILITY. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (3))**
3. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month NO_x emission calculation records for FGFACILITY, as required by SC I.1. The permittee shall calculate the emissions based on the emission limits in the manufacturer's product documentation for each engine. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (3) 40 CFR 52.21(c) & (d))**

4. The permittee shall keep, in a satisfactory manner acceptable to the AQD District Supervisor, records of the size of all boilers and which boilers have low NO_x burners on file at the facility and make them available to the Department upon request. **(R 336.1205(1)(a) & (3))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA