

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

May 31, 2023

**PERMIT TO INSTALL**  
112-16A

**ISSUED TO**  
MI GRR, LLC

**LOCATED AT**  
6100 East Paris Avenue  
Grand Rapids, Michigan 49512

**IN THE COUNTY OF**  
Kent

**STATE REGISTRATION NUMBER**  
P0709

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: <b>March 2, 2023</b>	
DATE PERMIT TO INSTALL APPROVED: <b>May 31, 2023</b>	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

## PERMIT TO INSTALL

### Table of Contents

COMMON ACRONYMS .....	2
POLLUTANT / MEASUREMENT ABBREVIATIONS.....	3
GENERAL CONDITIONS .....	4
EMISSION UNIT SPECIAL CONDITIONS.....	6
EMISSION UNIT SUMMARY TABLE .....	6
FLEXIBLE GROUP SPECIAL CONDITIONS.....	9
FLEXIBLE GROUP SUMMARY TABLE .....	9
FGENGINES4-39.....	10

## 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 <sub>2</sub> 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 <sub>2</sub> S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO <sub>x</sub>	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 <sub>2</sub>	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))	Installation Date / Modification Date	Flexible Group ID
EUEG4	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank	4/17/2017	FGENGINES4-39
EUEG5	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	5/20/2020	FGENGINES4-39
EUEG6	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	4/17/2017	FGENGINES4-39
EUEG7	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	5/20/2020	FGENGINES4-39
EUEG8	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	4/17/2017	FGENGINES4-39
EUEG9	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	5/20/2020	FGENGINES4-39
EUEG10	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG11	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG12	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG13	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG14	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39

<b>Emission Unit ID</b>	<b>Emission Unit Description (Including Process Equipment &amp; Control Device(s))</b>	<b>Installation Date / Modification Date</b>	<b>Flexible Group ID</b>
EUEG15	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG16	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG17	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG18	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG19	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG20	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank r.	Installation Date	FGENGINES4-39
EUEG21	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG22	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG23	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG24	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG25	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG26	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG27	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUEG28	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG29	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG30	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG31	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG32	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG33	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG34	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG35	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG36	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG37	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG38	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39
EUEG39	One 2,740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tank.	Installation Date	FGENGINES4-39

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.

## FLEXIBLE GROUP SPECIAL CONDITIONS

### FLEXIBLE GROUP SUMMARY TABLE

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

<b>Flexible Group ID</b>	<b>Flexible Group Description</b>	<b>Associated Emission Unit IDs</b>
FGENGINES4-39	Thirty-Six 2,740 kilowatt (kW) diesel-fueled emergency engines with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tanks	EUEG4, EUEG5, EUEG6, EUEG7, EUEG8, EUEG9, EUEG10, EUEG11, EUEG12, EUEG13, EUEG14, EUEG15, EUEG16, EUEG17, EUEG18, EUEG19, EUEG20, EUEG21, EUEG22, EUEG23, EUEG24, EUEG25, EUEG26, EUEG27, EUEG28, EUEG29, EUEG30, EUEG31, EUEG32, EUEG33, EUEG34, EUEG35, EUEG36, EUEG37, EUEG38, EUEG39

**FGENGINES4-39  
FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Thirty-Six 2740 kilowatt (kW) diesel-fueled emergency engine with a model year of 2016 or later, and a displacement of 4.77 liters/cylinder, and associated belly tanks.

**Emission Unit:** EUEG4, EUEG5, EUEG6, EUEG7, EUEG8, EUEG9, EUEG10, EUEG11, EUEG12, EUEG13, EUEG14, EUEG15, EUEG16, EUEG17, EUEG18, EUEG19, EUEG20, EUEG21, EUEG22, EUEG23, EUEG24, EUEG25, EUEG26, EUEG27, EUEG28, EUEG29, EUEG30, EUEG31, EUEG32, EUEG33, EUEG34, EUEG35, EUEG36, EUEG37, EUEG38, EUEG39

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NMHC + NO <sub>x</sub>	6.4 g/kW-hr <sup>A</sup>	Hourly	Each engine in FGENGINES4-39	SC V.1, SC VI.2, SC VI.3	40 CFR 60.4205(b), 60.4202(b)(2), Table 2 of Appendix I of 40 CFR 1039
2. NO <sub>x</sub>	7.52 tpy <sup>B</sup>	12-month rolling time period as determined at the end of each calendar month.	Combined total for EUEG4-9	SC VI.5, SC VI.9	R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d)
3. NO <sub>x</sub>	42.75 tpy <sup>C</sup>	12-month rolling time period as determined at the end of each calendar month.	Combined total for EUEG10-39	SC VI.6, SC VI.9	R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d)
4. CO	3.5 g/kW-hr <sup>A</sup>	Hourly	Each engine in FGENGINES4-39	SC V.1, SC VI.2, SC VI.3	40 CFR 60.4205(b), 60.4202(b)(2), Table 2 of Appendix I of 40 CFR 1039
5. PM	0.20 g/kW-hr <sup>A</sup>	Hourly	Each engine in FGENGINES4-39	SC V.1, SC VI.2, SC VI.3	40 CFR 60.4205(b), 60.4202(b)(2), Table 2 of Appendix I of 40 CFR 1039

<sup>A</sup>These 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).

<sup>B</sup>This emission limit is associated with 7.55 g/kW-hr of NO<sub>x</sub> for one hour and 5.23 g/kW-hr for 104 hours, which are less than the NTE requirements of 40 CFR 60.4212(c).

<sup>C</sup>This emission limit is associated with 6.26 g/kW-hr of NO<sub>x</sub> for one hour and 5.42 g/kW-hr for 104 hours, which is less than the NTE requirements of 40 CFR 60.4212(c).

**II. MATERIAL LIMIT(S)**

1. The permittee shall store only diesel fuel in each tank in FGENGINES4-39. **(R 336.1205)**
2. The permittee shall burn only diesel fuel in each engine in FGENGINES4-39 with the 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)**

1. The permittee shall not operate each engine in FGENGINES4-39 for more than 105 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 105 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))**
2. The permittee may operate each engine in FGENGINES4-39 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. Each engine in FGENGINES4-39 may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing. 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 the permittee to supply non-emergency 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 and maximum engine power, the permittee shall meet the following requirements for each engine in FGENGINES4-39:
  - 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 1068, as they apply to the engine.

If the permittee does not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine may 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 each such engine in FGENGINES4- 39 and shall, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4211(g)(3))**
6. The permittee shall not operate each engine in FGENGINES4-39 at more than 75 percent load, for more than 1 hour per engine per rolling 12 month time period. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**

### **IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall equip and maintain each engine in FGENGINES4-39 with a non-resettable hours meter to track the operating hours. **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d), 40 CFR 60.4209)**
2. The design capacity of each engine of FGENGINES4-39 shall be 2740 kW (3674 HP), as certified by the equipment manufacturer. **(R 336.1205(1)(a) & (3), R 336.1225, 40 CFR 60.4202(b), 40 CFR 1039)**

## **V. TESTING/SAMPLING**

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

1. If any engine in FGENGINES4-39 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 an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after changing 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.
  - 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. 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 60.4211(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, R 336.1702(a), 40 CFR 52.21(c) & (d))**
2. The permittee shall keep, in a satisfactory manner, the following records for each engine in FGENGINES4-39:
  - a) For each certified engine: The permittee shall keep records of the manufacturer certification documentation.
  - b) For each 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 each engine in FGENGINES4-39:
  - a) For each 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.3.
  - b) For each uncertified engine: The permittee shall keep records of a maintenance plan, as required by SC III.4, 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 each engine in FGENGINES4-39, 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 each engine in FGENGINES4-39, 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 each engine in FGENGINES4-39, including what classified the operation as emergency and how many hours are spent for non-emergency operation. **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d), 40 CFR 60.4211, 40 CFR 60.4214)**

5. The permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total combined NO<sub>x</sub> mass emissions for EUEG4-9, as required by SC I.2. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed according to a method approved by the District Supervisor. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
6. The permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total combined NO<sub>x</sub> mass emissions for EUEG10-39, as required by SC 1.3. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed according to a method approved by the District Supervisor. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
7. 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 EUEG4-9, 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, 40 CFR 1090.305)**
8. 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 EUEG10-39, 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, 40 CFR 1090.305)**
9. For each operating hour, the permittee shall keep, in a satisfactory manner, the continuous percent load for each engine in FGENGINES4-39. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**

**VII. REPORTING**

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of each organizational unit within FGENGINES4-39. An organizational unit consists of a block of six engines and their associated belly tanks. **(R 336.1201(7)(a))**
2. The permittee shall submit a notification specifying whether each engine in FGENGINES4-39 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 (this may be included in the notification required in SC VII.1) 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:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter / Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVEG4	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVEG5	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVEG6	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVEG7	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVEG8	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter / Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
6. SVEG9	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
1. SVEG10	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVEG11	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVEG12	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVEG13	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVEG14	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
6. SVEG15	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
7. SVEG16	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
8. SVEG17	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
9. SVEG18	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
10. SVEG19	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
11. SVEG20	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
12. SVEG21	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
13. SVEG22	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
14. SVEG23	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
15. SVEG24	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
16. SVEG25	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
17. SVEG26	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
18. SVEG27	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
19. SVEG28	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
20. SVEG29	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
21. SVEG30	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
22. SVEG31	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
23. SVEG32	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
24. SVEG33	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
25. SVEG34	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter / Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
26. SVEG35	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
27. SVEG36	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
28. SVEG37	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
29. SVEG38	18.1	21.5	R 336.1225, 40 CFR 52.21(c) & (d)
30. SVEG39	18.1	21.5	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 Subpart A and Subpart IIII, as they apply to each engine in FGENGINES4-39. **(40 CFR Part 60 Subparts A & IIII, 40 CFR 63.6590)**
2. The permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, Subpart A and Subpart ZZZZ, as they apply to each engine in FGENGINES4-39, upon startup. **(40 CFR Part 63 Subparts A and ZZZZ, 40 CFR 63.6595)**

**Footnotes:**

<sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).