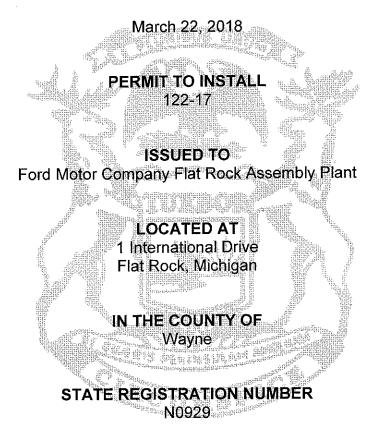
# MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION



The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. 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 September 11, 2017	NREQUIRED BY RULE 203:
DATE PERMIT TO INSTALL APPROVED: March 22, 2018	SIGNATURE: Maryann Dolcharty
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

# PERMIT TO INSTALL

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Common Abbreviations /	Acronyms
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Common Acronyms		Pollutant / Measurement Abbreviations		
AQD	Air Quality Division	acfm	Actual cubic feet per minute	
BACT	Best Available Control Technology	BTU	British Thermal Unit	
CAA	Clean Air Act	°C	Degrees Celsius	
CAM	Compliance Assurance Monitoring	со	Carbon Monoxide	
CEM	Continuous Emission Monitoring	CO <sub>2</sub> e	Carbon Dioxide Equivalent	
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot	
COM	Continuous Opacity Monitoring	dscm	Dry standard cubic meter	
Department/	Michigan Department of Environmental	°F	Degrees Fahrenheit	
department	Quality	gr	Grains	
EU	Emission Unit	HAP	Hazardous Air Pollutant	
FG	Flexible Group	Hg	Mercury	
GACS	Gallons of Applied Coating Solids	hr	Hour	
GC	General Condition	HP	Horsepower	
GHGs	Greenhouse Gases	H <sub>2</sub> S	Hydrogen Sulfide	
HVLP	High Volume Low Pressure*	kW	Kilowatt	
ID	Identification	lb	Pound	
IRSL	Initial Risk Screening Level	m	Meter	
ITSL	Initial Threshold Screening Level	mg	Milligram	
LAER	Lowest Achievable Emission Rate	mm	Millimeter	
MACT	Maximum Achievable Control Technology	MM	Million	
MAERS	Michigan Air Emissions Reporting System	MW	Megawatts	
MAP	Malfunction Abatement Plan	NMOC	Non-methane Organic Compounds	
MDEQ	Michigan Department of Environmental	NOx	Oxides of Nitrogen	
MODO	Quality	ng	Nanogram	
MSDS NA	Material Safety Data Sheet Not Applicable	PM	Particulate Matter Particulate Matter equal to or less than 10	
NAAQS	National Ambient Air Quality Standards	PM10	microns in diameter	
NESHAP	National Emission Standard for		Particulate Matter equal to or less than 2.5	
	Hazardous Air Pollutants	PM2.5	microns in diameter	
NSPS	New Source Performance Standards	pph	Pounds per hour	
NSR PS	New Source Review Performance Specification	ppm	Parts per million	
PSD	Prevention of Significant Deterioration	ppmv	Parts per million by volume	
PTE	Permanent Total Enclosure	ppmw	Parts per million by weight	
PTL	Permit to Install	psia	Pounds per square inch absolute	
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge	
ROP	Renewable Operating Permit	scf	Standard cubic feet	
SC	Special Condition	sec	Seconds	
			Sulfur Dioxide	
SCR	Selective Catalytic Reduction	TAC	Toxic Air Contaminant	
SNCR SRN	Selective Non-Catalytic Reduction	Temp	Temperature	
	State Registration Number	THC	Total Hydrocarbons	
	Toxicity Equivalence Quotient United States Environmental Protection	tpy	Tons per year	
USEPA/EPA	Agency	μg	Microgram Micrometer er Micron	
VE	Visible Emissions	µm VOC	Micrometer or Micron Volatile Organic Compounds	
		yr	Year	
		J.		

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

#### **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 Environmental Quality, 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 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 R 336.1219 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 R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. (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 conditions 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 R 336.1301, 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 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.
- 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 R 336.1370(2). (R 336.1370)
- The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. (R 336.2001)

### 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 (Process Equipment & Control Devices)	Flexible Group ID		
EUENGINE01	A 2,500 kilowatt (kW) diesel-fueled emergency engine/generator with a model year of 2011 or later, and a displacement of 2.53 liters/cylinder which exhausts to SVENGINE01. The engine is rated at 3,633 brake horsepower (BHP).	FGENGINES		
EUENGINE02	A 2,500 kilowatt (kW) diesel-fueled emergency engine/generator with a model year of 2011 or later, and a displacement of 2.53 liters/cylinder which exhausts to SVENGINE02. The engine is rated at 3,633 brake horsepower (BHP).	FGENGINES		
EUENGINE03	A 2,500 kilowatt (kW) diesel-fueled emergency engine/generator with a model year of 2011 or later, and a displacement of 2.53 liters/cylinder which exhausts to SVENGINE03. The engine is rated at 3,633 brake horsepower (BHP).	FGENGINES		
EUENGINE04	A 2,500 kilowatt (kW) diesel-fueled emergency engine/generator with a model year of 2011 or later, and a displacement of 2.53 liters/cylinder which exhausts to SVENGINE04. The engine is rated at 3,633 brake horsepower (BHP).	FGENGINES		
EUENGINE05	A 2,500 kilowatt (kW) diesel-fueled emergency engine/generator with a model year of 2011 or later, and a displacement of 2.53 liters/cylinder which exhausts to SVENGINE05. The engine is rated at 3,633 brake horsepower (BHP).	FGENGINES		
EUENGINE06	A 2,500 kilowatt (kW) diesel-fueled emergency engine/generator with a model year of 2011 or later, and a displacement of 2.53 liters/cylinder which exhausts to SVENGINE06. The engine is rated at 3,633 brake horsepower (BHP).	FGENGINES		
EUENGINE07	A 2,500 kilowatt (kW) diesel-fueled emergency engine/generator with a model year of 2011 or later, and a displacement of 2.53 liters/cylinder which exhausts to SVENGINE07. The engine is rated at 3,633 brake horsepower (BHP).	FGENGINES		
EUENGINE08	A 2,500 kilowatt (kW) diesel-fueled emergency engine/generator with a model year of 2011 or later, and a displacement of 2.53 liters/cylinder which exhausts to SVENGINE08. The engine is rated at 3,633 brake horsepower (BHP).	FGENGINES		
EUFIREPUMPENGS	Two emergency fire pump engines. Each engine is rated at 250 brake horsepower and is diesel fuel fired.	FGENGINES		
EULIFESAFETYENG	An emergency engine rated at 500 kilo Watts and is diesel fuel fired.	FGENGINES		
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 336.1290.				

#### 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
FGENGINES	Flexible group containing eleven diesel-fueled emergency engines.	EUENGINE01, EUENGINE02, EUENGINE03, EUENGINE04, EUENGINE05, EUENGINE06, EUENGINE07, EUENGINE08, EUFIREPUMPENGS, EU LIFESAFETYENG

#### The following conditions apply to: FGENGINES

**DESCRIPTION:** Flexible group containing eleven diesel-fueled emergency engines.

Flexible Group ID: FGENGINES

## POLLUTION CONTROL EQUIPMENT: NA

#### I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NMHC + NOx	6.4 g/kW-hr (each engine)	Hourly	EUENGINE01, EUENGINE02, EUENGINE03, EUENGINE04, EUENGINE05, EUENGINE06, EUENGINE07, EUENGINE08	SC V.1	40 CFR 60.4205(b), 40 CFR 60.4202(b)(2)), Table 1 of 40 CFR 89.112
2. NOx	42.6 pph (each engine)	Hourly	EUENGINE01, EUENGINE02, EUENGINE03, EUENGINE04, EUENGINE05, EUENGINE06, EUENGINE07, EUENGINE08	SC V.1	R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810
3. NMHC + NOx	4.0 g/kW-hr	Hourly	EULIFESAFETYENG	SC V.1	40 CFR 60.4205(b), Table 1 of 40 CFR 89.112
4. NOx	8.47 pph	Hourly	EULIFESAFETYENG	SC V.1	R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810
5. NMHC + NOx	3.0 g/BHP-hr (each engine)	Hourly	EUFIREPUMPENGS	SC V.1	40 CFR 60.4202(d) and 40 CFR 60.4205(c), Table 4 of 40 CFR Subpart IIII
6. NOx	2.8 pph (each engine)	Hourly	EUFIREPUMPENGS	SC V.1	R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
7. NOx	88 tons per year	12-month rolling time period, as determined at the end of each calendar month	FGENGINES	SC III.2	R 336.1205(1)(a) & (b),
8. CO	3.5 g/kW-hr (each engine)	Hourly	EUENGINE01, EUENGINE02, EUENGINE03, EUENGINE04, EUENGINE05, EUENGINE06, EUENGINE07, EUENGINE08	SC V.1	40 CFR 60.4205(b), 40 CFR 60.4202(b)(2), Table 1 of 40 CFR 89.112
9. CO	3.5 g/kW-hr (each engine)	Hourly	EULIFESAFETYENG	SC V.1	40 CFR 60.4205(b), Table 1 of 40 CFR Subpart IIII
10. PM	0.20 g/kW-hr (each engine)	Hourly	EUENGINE01, EUENGINE02, EUENGINE03, EUENGINE04, EUENGINE05, EUENGINE06, EUENGINE07, EUENGINE08	SC V.1	40 CFR 60.4205(b), 40 CFR 60.4202(b)(2), Table 1 of 40 CFR 89.112
11. PM	0.20 g/kW-hr (each engine)	Hourly	EULIFESAFETYENG	SC V.1	40 CFR 60.4205(b), 40 CFR 60.4202(b)(2), Table 1 of 40 CFR 89.112
12. PM	0.06 g/HP-hr (each engine)	Hourly	EUFIREPUMPENGS	SC V.1	40 CFR 60.4202(d) and 40 CFR 60.4205(c), Table 4 of 40 CFR Subpart IIII

# II. MATERIAL LIMITS

 The permittee shall burn only diesel fuel, in FGENGINES 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. (40 CFR 60.4207, 40 CFR 80.510(b))

# III. PROCESS/OPERATIONAL RESTRICTIONS

- The permittee shall not operate each engine in FGENGINES for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 500 hours includes the hours for the purpose of necessary maintenance checks and readiness testing as described in SC III.2. (R 336.1225, R 336.1702(a), 40 CFR 52.21 (c) & (d))
- 2. The permittee may operate each engine in FGENGINES 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. 40 CFR 60.4202(d) and 40 CFR 60.4205(c), Table 4 of 40 CFR Subpart IIII. 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))

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- 3. Each engine in FGENGINES 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 as provided in §60.4211(f)(2). Except as provided in §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, the permittee shall meet the following requirements for each engine in FGENGINES:
  - a) Operate and maintain the certified engine and control device according to the manufacturer's emissionrelated 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 89, 94, and/or 1068, as it applies to you.

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))

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 engine in FGENGINES 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))

# IV. DESIGN/EQUIPMENT PARAMETERS

- 1. The permittee shall equip and maintain each engine in FGENGINES with non-resettable hours meters to track the operating hours. (R 336.1225, 40 CFR 60.4209(a))
- The permittee shall install, maintain, and operate each engine in FGENGINES certified to the emission standards in §60.4205(b), as described in SC I.1 through SC I.7, for the same model year and NFPA nameplate engine power for each engine in FGENGINES. The engines must be installed and configured according to the manufacturer's emission-related specifications. (40 CFR 60.4202, 40 CFR 60.4205)

# V. TESTING/SAMPLING

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

The permittee shall conduct an initial performance test for FGENGINES within one year after startup of the engine to demonstrate compliance with the emission limits in 40 CFR 60.4205 unless the engines have been certified by the manufacturer and the permittee maintains the engine as required by 40 CFR Part 60 Subpart IIII. If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4212. No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD 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. Subsequent performance testing shall be conducted every 8,760 hours of engine operation or 3 years, whichever comes first. (40 CFR 60.4205(b), 40 CFR 60.4211(g), 40 CFR 60.4212, 40 CFR Part 60 Subpart IIII)

# 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 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (40 CFR 52.21 (c) & (d))

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- 2. For each engine in FGENGINES, the permittee shall keep, in a manner satisfactory to the AQD District Supervisor, records of testing required in SC V.1 or manufacturer certification documentation indicating that each engine in FGENGINES meets the applicable requirements contained in the federal Standards of Performance for New Stationary Sources 40 CFR Part 60 Subpart IIII. If any engine in FGENGINES becomes uncertified then the permittee must also keep records of a maintenance plan and maintenance activities. The permittee shall keep all records on file and make them available to the Department upon request. (40 CFR 60.4211(a))
- The permittee shall monitor and record the total hours of operation and the hours of operation during nonemergencies for each engine in FGENGINES, on a monthly and 12-month rolling time period basis, in a manner acceptable to the District Supervisor, Air Quality Division. The permittee shall document how many hours are spent for emergency operation of each engine in FGENGINES, including what classified the operation as emergency and how many hours are spent for non-emergency operation. (40 CFR 60.4211, 40 CFR 60.4214)
- 4. 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 each engine in FGENGINES, demonstrating that the fuel meets the requirement of 40 CFR 80.510(b). 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. (40 CFR 60.4207, 40 CFR 80.510(b))

# VII. <u>REPORTING</u>

- 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 engine in FGENGINES. (R 336.1201(7)(a))
- 2. The permittee shall submit a notification specifying whether each engine in FGENGINES 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 RESTRICTIONS

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. SVENGINE01	18	26	R 336.1225, 40 CFR 52.21 (c) & (d)
2. SVENGINE02	18	26	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVENGINE03	18	26	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVENGINE04	18	26	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVENGINE05	18	26	R 336.1225, 40 CFR 52.21(c) & (d)

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements	
6. SVENGINE06	18	26	R 336.1225, 40 CFR 52.21(c) & (d)	
7. SVENGINE07	18	26	R 336.1225, 40 CFR 52.21(c) & (d)	
8. SVENGINE08	18	26	R 336.1225, 40 CFR 52.21(c) & (d)	
9. SVFIREPUMPENGINES	6 (each engine)	15 (each engine)	R 336.1225, 40 CFR 52.21(c) & (d)	
10. SVLIFESAFETYENG	12	26	R 336.1225, 40 CFR 52.21(c) & (d)	

# IX. OTHER REQUIREMENTS

- 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 FGENGINES. (40 CFR Part 60 Subparts A & IIII, 40 CFR 63.6590)
- 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 FGENGINES (40 CFR Part 63 Subparts A and ZZZZ, 40 CFR 63.6595)