

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

September 12, 2012

**PERMIT TO INSTALL
72-12**

ISSUED TO
Henry ford West Bloomfield Hospital

LOCATED AT
6777 West Maple Road
West Bloomfield, Michigan

IN THE COUNTY OF
Oakland

STATE REGISTRATION NUMBER
P0336

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 REQUIRED BY RULE 203:

June 13, 2012

DATE PERMIT TO INSTALL APPROVED:

September 12, 2012

SIGNATURE:

DATE PERMIT VOIDED:

SIGNATURE:

DATE PERMIT REVOKED:

SIGNATURE:

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	BTU	British Thermal Unit
BACT	Best Available Control Technology	°C	Degrees Celsius
CAA	Clean Air Act	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
CO ₂ e	Carbon Dioxide Equivalent	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H ₂ S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	kW	Kilowatt
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfuction Abatement Plan	NO _x	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality (Department)	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	PM less than 10 microns diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	PM less than 2.5 microns diameter
NSPS	New Source Performance Standards	pph	Pounds per hour
NSR	New Source Review	ppm	Parts per million
PS	Performance Specification	ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration	ppmw	Parts per million by weight
PTE	Permanent Total Enclosure	psia	Pounds per square inch absolute
PTI	Permit to Install	psig	Pounds per square inch gauge
RACT	Reasonably Available Control Technology	scf	Standard cubic feet
ROP	Renewable Operating Permit	sec	Seconds
SC	Special Condition	SO ₂	Sulfur Dioxide
SCR	Selective Catalytic Reduction	THC	Total Hydrocarbons
SRN	State Registration Number	tpy	Tons per year
TAC	Toxic Air Contaminant	µg	Microgram
TEQ	Toxicity Equivalence Quotient	VOC	Volatile Organic Compound
VE	Visible Emissions	yr	Year

* For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (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.

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 R 336.1370(2). **(R 336.1370)**

13. 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)	Installation Date / Modification Date	Flexible Group ID
EUBOILER1	Natural gas fired firetube boiler with a heat input of 12 million Btu per hour, capable of firing fuel oil.	March 2009	FGBOILERS
EUBOILER2	Natural gas fired firetube boiler with a heat input of 42 million Btu per hour, capable of firing fuel oil.	March 2009	FGBOILERS
EUBOILER3	Natural gas fired firetube boiler with a heat input of 42 million Btu per hour, capable of firing fuel oil.	March 2009	FGBOILERS
EUBOILER4	Natural gas fired firetube boiler with a heat input of 42 million Btu per hour, capable of firing fuel oil.	March 2009	FGBOILERS
EUENGINE1	Diesel fired emergency generator with a 2 MW output, manufactured on April 3, 2006	2008	NA
EUENGINE2	Diesel fired emergency generator with a 2 MW output, manufactured on March 28, 2006	2008	FGENGINES
EUENGINE3	Diesel fired emergency generator with a 2 MW output, manufactured on March 28, 2006	2008	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.			

The following conditions apply to: EUENGINE1

DESCRIPTION: A 2000 kilowatts (kW) diesel-fueled emergency engine manufactured in April 2006.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT:

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	6.9 g/hp-hr	Test Protocol*	EUENGINE1	SC VI.2	40 CFR 60.4205
2. HC	0.2 g/hp-hr	Test Protocol*	EUENGINE1	SC VI.2	40 CFR 60.4205
3. CO	0.9 g/hp-hr	Test Protocol*	EUENGINE1	SC VI.2	40 CFR 60.4205
4. PM	0.1 g/hp-hr	Test Protocol*	EUENGINE1	SC VI.2	40 CFR 60.4205

*Test Protocol shall determine averaging time.

II. MATERIAL LIMITS

1. The permittee shall burn only diesel fuel, in EUENGINE1 with the maximum sulfur content of 15 ppm (0.0015 percent) by weight. **(R 336.1205(1)(a) and (3), R 336.1402(1), 40 CFR 60.4207, 40 CFR 80.510(b))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EUENGINE1 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 100 hours for the purpose of necessary maintenance checks and readiness testing as described in SC III.2. **(R 336.1205 (3), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
2. The permittee may operate EUENGINE1 for no more than 100 hours per 12-month rolling time period as determined at the end of each calendar month 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, or the insurance company associated with the engine. 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 year. EUENGINE1 may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4211)**
3. The permittee shall install, maintain, and operate each of EUENGINE1 according to the manufacturer written instructions, or procedures developed by the owner/operator and approved by the engine manufacturer, over the entire life of the engine. **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 60.4206, 40 CFR 60.4211)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall equip and maintain each EUENGINE1 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 nameplate capacity of EUENGINE1 shall not exceed 2000 kW, as certified by the equipment manufacturer. **(R 336.1205(1)(a) & (3), 40 CFR 60.4202)**

V. TESTING/SAMPLING

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

1. The permittee shall conduct an initial performance test for EUENGINE1 within one year after permit issuance 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. **(40 CFR 60.4211, 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. **(R 336.1205(1)(a) & (3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
2. The permittee shall keep, in a satisfactory manner, a record of testing required in SC V.1 or manufacturer certification documentation indicating that EUENGINE1 meets the applicable emission limitations contained in the federal Standards of Performance for New Stationary Sources 40 CFR Part 60 Subpart IIII. 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 monitor and record the total hours of operation and the hours of operation during non-emergencies for EUENGINE1, 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 EUENGINE1, 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)**
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 EUENGINE1, demonstrating that the fuel sulfur content meets the requirement of 40 CFR 80.510(b). The certification or test data shall include the name of the oil supplier or laboratory, and the sulfur content of the fuel oil. **(R 336.1205(1)(a) & (3), R 336.1402(1), 40 CFR 80.510(b))**

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 EUENGINE1. **(R 336.1201(7)(a))**

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. SVENGINE1	18	69.5	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENTS

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 EUENGINE1. **(40 CFR Part 60 Subparts A & IIII)**
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 EUENGINE1. **(40 CFR Part 63 Subparts A and ZZZZ, 40 CFR 63.6595)**

Footnotes:

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

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	One (1) 12 million Btu per hour and three (3) 42 million Btu per hour natural gas fired firetube boilers, capable of firing fuel oil.	EUBOILER1 EUBOILER2 EUBOILER3 EUBOILER4
FGENGINES	Two (2) Diesel fired emergency generators with each having a 2 MW output.	EUENGINE2 EUENGINE3

The following conditions apply to: FGBOILERS

DESCRIPTION: One (1) 12 million Btu per hour and three (3) 42 million Btu per hour natural gas fired firetube boilers, capable of firing fuel oil.

Emission Units: EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4

POLLUTION CONTROL EQUIPMENT: N/A

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	36.75 tpy	12-Month rolling time period determine at the end of each calendar month	Collectively, for all units in FGBOILERS	SC V.1 SC VI.2	R 336.1205 (1)(a) R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
2. NOx (natural gas only)	1.48 pph	Test Protocol*	EUBOILER2, EUBOILER3, & EUBOILER4 of FGBOILERS (emissions per unit)	SC V.1 SC VI.2	R 336.1205 (1)(a) R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
3. NOx (diesel fuel only)	5.86 pph	Test Protocol*	EUBOILER2, EUBOILER3, & EUBOILER4 of FGBOILERS (emissions per unit)	SC V.1 SC VI.2	R 336.1205 (1)(a) R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
4. NOx (natural gas only)	0.42 pph	Test Protocol*	EUBOILER1 of FGBOILERS	SC V.1 SC VI.2	R 336.1205 (1)(a) R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
5. NOx (diesel fuel only)	1.68 pph	Test Protocol*	EUBOILER1 of FGBOILERS	SC V.1 SC VI.2	R 336.1205 (1)(a) R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
6. PM	0.027 lbs/1000 lbs of gas	Test Protocol*	Each unit in FGBOILERS	SC V.1 SC VI.2	R 336.1331 40 CFR 52.21 (c) & (d)
7. PM (natural gas only)	0.42 pph	Test Protocol*	EUBOILER2, EUBOILER3, & EUBOILER4 of FGBOILERS (emissions per unit)	SC V.1 SC VI.2	R 336.1205 (1)(a) 40 CFR 52.21 (c) & (d)
8. PM (diesel fuel only)	1.52 pph	Test Protocol*	EUBOILER2, EUBOILER3, & EUBOILER4 of FGBOILERS (emissions per unit)	SC V.1 SC VI.2	R 336.1205 (1)(a) 40 CFR 52.21 (c) & (d)
9. PM10	1.52 pph	Test Protocol*	EUBOILER2, EUBOILER3, & EUBOILER4 of FGBOILERS (emissions per unit)	SC V.1 SC VI.2	R 336.1205 (1)(a) 40 CFR 52.21 (c) & (d)

*Test Protocol shall determine averaging time.

II. MATERIAL LIMITS

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Fuel Oil	383,250 gallons per year	12-month rolling time period	EUBOILER1 of FGBOILERS	SC VI.2	R 336.1205 (1)(a) & (3) R 336.1225 40 CFR 52.21 (c) & (d)
2. Fuel Oil	2,620,000 gallons per year	12-month rolling time period	EUBOILER2, EUBOILER3, & EUBOILER4 of FGBOILERS (collectively)	SC VI.2	R 336.1205 (1)(a) & (3) R 336.1225 40 CFR 52.21 (c) & (d)
3. Natural Gas	103.1 MMcft/yr	12-month rolling time period	EUBOILER1 of FGBOILERS	SC VI.2	R 336.1205 (1)(a) & (3) R 336.1225 40 CFR 52.21 (c) & (d)
4. Natural Gas	721.5 MMcft/yr	12-month rolling time period	EUBOILER2, EUBOILER3, & EUBOILER4 of FGBOILERS (collectively)	SC VI.2	R 336.1205 (1)(a) & (3) R 336.1225 40 CFR 52.21 (c) & (d)

5. The permittee shall not operate more than two (2) of the following units at any time: EUBOILER2, EUBOILER3, and EUBOILER4. **(R 336.1205 (1)(a) & (3), R 336.1225, 40 CFR 52.21 (c) & (d))**
6. The permittee shall burn only pipeline quality natural gas and diesel fuel in FGBOILERS. **(R 336.1225, R 336.1702, 40 CFR Part 60 Subpart Dc)**
7. The permittee shall burn diesel fuel, in FGBOILERS with the maximum sulfur content of 0.01 percent by weight. **(R 336.1225, R 336.1402(1), 40 CFR 52.21 (c) & (d), 40 CFR Part 60 Subpart Dc)**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall operate each unit in FGBOILERS in accordance with manufacturer's recommendations for safe and proper operation to minimize emissions during periods of startup, shutdown and malfunction. **(R 336.1912)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The heat input capacity of each unit in FGBOILERS shall not exceed a maximum of 42 million BTU per hour each. **(R 336.1205 (1)(a) & (3), R 336.1225)**
2. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a device to monitor and record the fuel use for each unit in FGBOILERS on a monthly basis. **(R 336.1205 (1)(a) & (3), R 336.1225)**

V. TESTING/SAMPLING

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

1. Upon request from the district supervisor, the permittee shall verify NOx, PM, and PM-10 emission rates from FGBOILERS, by testing at owner's expense. No less than 60 days prior to testing, the permittee must submit a complete stack-testing 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. **(R 336.1205 (1)(a), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**

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. **(R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
2. The permittee shall keep, in a satisfactory manner, monthly fuel use records for each unit in FGBOILERS. The records must indicate the type and total amount of each fuel used monthly in each unit in FGBOILERS. All records shall be kept on file and made available to the Department upon request. **(R 336.1205 (1)(a) & (3), R 336.1225, 40 CFR 60.48c(g))**
3. The permittee shall monitor and record the hours of operation of each unit in FGBOILERS, on a monthly and 12- month rolling time period basis to show compliance with SC. II.5, in a manner that is acceptable to the District Supervisor, Air Quality Division. All records shall be kept on file and made available to the Department upon request. **(R 336.1205 (1)(a) & (3), R 336.1225, 40 CFR 52.21 (c) & (d))**
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 unit in FGBOILERS, demonstrating that the fuel sulfur content meets the requirement of SC II.7. The certification or test data shall include the name of the oil supplier or laboratory, and the sulfur content of the fuel oil. **(R 336.1402(1))**
5. The permittee shall keep, in a satisfactory manner, monthly NOx emission calculations for each unit in FGBOILERS. All records shall be kept on file and made available to the Department upon request. **(R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**

VII. REPORTING

NA

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. SVBOILER1	20	69.5	R 336.1225
2. SVBOILER2	36	69.5	R 336.1225
3. SVBOILER3	36	69.5	R 336.1225
4. SVBOILER4	36	69.5	R 336.1225

IX. OTHER REQUIREMENTS

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

Footnotes:

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

The following conditions apply to: FGENGINES

DESCRIPTION: Two (2) 2,000 kilowatts (kW) diesel-fueled emergency engines manufactured on March 28, 2006.

EMISSION UNITS: EUENGINE2, EUENGINE3

POLLUTION CONTROL EQUIPMENT:

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NO _x	6.9 g/hp-hr	Test Protocol*	FGENGINES (emissions per unit)	SC V.1 SC VI.2	R 336.1205(1)(a) R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
2. CO	0.9 g/hp-hr	Test Protocol*	FGENGINES (emissions per unit)	SC V.1 SC VI.2	R 336.1205(1)(a) R 336.2804 40 CFR 52.21 (d)

*Test Protocol shall determine averaging time.

II. MATERIAL LIMITS

1. The permittee shall burn only diesel fuel, in FGENGINES with the maximum sulfur content of 15 ppm (0.0015 percent) by weight. **(R 336.1205(1)(a), R 336.1402(1))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate each unit in FGENGINES for more than 500 hours per year each on a 12-month rolling time period basis as determined at the end of each calendar month. **((R 336.1205(1)(a) & (3), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
2. The permittee shall install, maintain, and operate FGENGINES according to the manufacturer written instructions, or procedures developed by the owner/operator and approved by the engine manufacturer, over the entire life of the engine. **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall equip and maintain each unit of FGENGINES with non-resettable hours meters to track the operating hours. **(R 336.1205(1)(a) & (3))**
2. The nameplate capacity of each unit in FGENGINES shall not exceed 2000 kW, as certified by the equipment manufacturer. **(R 336.1205(1)(a) & (3))**

V. TESTING/SAMPLING

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

1. Upon request from the district supervisor, the permittee shall verify NO_x and CO emission rates from FGEngines, by testing at owner's expense, in accordance with Department requirements or by providing documentation as required in SC VI.2. No less than 60 days prior to testing, the permittee must submit a complete stack-testing 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. (R 336.2001, R 336.2003, R 336.2004)

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. (R 336.1205(1)(a) & (3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))
2. The permittee shall keep records of performance test results indicating that each unit in FGEngines meets the applicable emission limitations contained SC I.1 and SC I.2. 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 monitor and record the hours of operation of each unit in FGEngines, on a monthly and 12- month rolling time period basis, in a manner that is acceptable to the District Supervisor, Air Quality Division. (R 336.1205(1)(a) & (3))
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 unit of FGEngines, demonstrating that the fuel sulfur content meets the requirement of SC II.1. The certification or test data shall include the name of the oil supplier or laboratory, and the sulfur content of the fuel oil. (R 336.1205(1)(a) & (3), R 336.1402)

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 for each unit in FGEngines. (R 336.1201(7)(a))

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. SVENGINE2	18	69.5	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. SVENGINE3	18	69.5	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENTS

1. 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)**

Footnotes:

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