

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

May 1, 2015

**PERMIT TO INSTALL
4-13B**

**ISSUED TO
Zoetis LLC**

**LOCATED AT
306 Pitcher Street
Kalamazoo, Michigan**

**IN THE COUNTY OF
Kalamazoo**

**STATE REGISTRATION NUMBER
B4288**

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: March 20, 2015	
DATE PERMIT TO INSTALL APPROVED: May 1, 2015	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

Table of Contents

Section	Page
Alphabetical Listing of Common Abbreviations / Acronyms	2
General Conditions	3
Special Conditions	5
Emission Unit Summary Table.....	5
Special Conditions for EUB214BOILER4	6
Special Conditions for EUB214BOILER5	8
Flexible Group Summary Table	10
Special Conditions for FGB214BOILERS	11
Special Conditions for FGGENBLDGENGINES	13
Special Conditions for FGB300ENGINES	15
Special Conditions for FGFACILITY	17

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	Malfunction Abatement Plan	NO _x	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality (Department)	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	PM with aerodynamic diameter ≤10 microns
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	PM with aerodynamic diameter ≤ 2.5 microns
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 (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUB214BOILER1	72.4 MMBTU/hr natural gas fired boiler, with a rated capacity of 70,000 lb. steam/hr	1-1-70	FGB214BOILERS FGFACILITY
EUB214BOILER4	93.2 MMBTU/hr natural gas fired boiler	12-01-90/8-16-00, 12-2-2014	FGB214BOILERS FGFACILITY
EUB214BOILER5	95.5 MMBTU/hr natural gas fired boiler with fuel oil as a backup fuel	PTI Issuance	FGB214BOILERS FGFACILITY
EUENGINEGEN1	2922 bhp diesel fuel-fired reciprocating engine driving a 2,000 kW generator used for emergency power	5-24-2005	FGGENBLDGENGINES FGFACILITY
EUENGINEGEN2	2922 bhp diesel fuel-fired reciprocating engine driving a 2,000 kW generator used for emergency power	5-24-2005	FGGENBLDGENGINES FGFACILITY
EUENGINEGEN3	2922 bhp diesel fuel-fired reciprocating engine driving a 2,000 kW generator used for emergency power	5-24-2005	FGGENBLDGENGINES FGFACILITY
EUENGINEGEN4	2922 bhp diesel fuel-fired reciprocating engine driving a 2,000 kW generator used for emergency power	5-24-2005	FGGENBLDGENGINES FGFACILITY
EUENGINEGEN5	2922 bhp diesel fuel-fired reciprocating engine driving a 2,000 kW generator used for emergency power	5-24-2005	FGGENBLDGENGINES FGFACILITY
EUENGINEGEN6	2922 bhp diesel fuel-fired reciprocating engine driving a 2,000 kW generator used for emergency power	5-24-2005	FGGENBLDGENGINES FGFACILITY
EUENGINEGENAUX	470 bhp, diesel fuel-fired reciprocating engine driving a 300 kW generator used for emergency power.	5-24-2005	FGGENBLDGENGINES FGFACILITY
EUB300ENGINEGEN1	1850 bhp, diesel fuel-fired reciprocating engine generator used for emergency power generation.	01-01-1992	FGB300ENGINES FGFACILITY
EUB300ENGINEGEN2	1850 bhp, diesel fuel-fired reciprocating engine generator used for emergency power generation.	01-01-1999	FGB300ENGINES FGFACILITY
EUB214TANK1	12,000 gallon storage tank for no. 2 fuel oil	PTI Issuance	FGFACILITY

The following conditions apply to: EUB214BOILER4

DESCRIPTION: 93.2 MMBTU/hr natural gas fired boiler.

Flexible Group ID: FGB214BOILERS, FGFACILITY

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NO _x	0.07 lb/MMBTU heat input	monthly	EUB214BOILER4	SC VI.1	R336.1205(1)(a)
2. NO _x	6.5 pph	monthly	EUB214BOILER4	SC VI.1	R336.1205(1)(a)

II. MATERIAL LIMITS

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Natural Gas Fuel	0.095 MMscf/hr*	hourly	EUB214BOILER4	SC VI.2	R 336.1205(1)(a) & (3)

* Limit is based on a Higher Heating Value of natural gas equal to 1,050 BTU/scf.

III. PROCESS/OPERATIONAL RESTRICTIONS

NA

IV. DESIGN/EQUIPMENT PARAMETERS

1. The design capacity of EUB214BOILER4 shall be less than 100 MMBTU/hr. **(R 336.1205(1)(a))**
2. The permittee shall equip and maintain EUB214BOILER4 with a volumetric flow meter to monitor and record the fuel flow rate. **(R 336.1205(1)(a))**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall monitor and record, in a satisfactory manner, the natural gas fuel usage from EUB214BOILER4 on a monthly basis. **(R 336.1205(1)(a) & (3), 40 CFR 60.48c(g))**
2. The permittee shall monitor and record, in a satisfactory manner, fuel flow rate, from EUB214BOILER4 on an hourly basis. **(R 336.1205(1)(a) & (3))**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVB214BOILER4	54	205	R 336.2803, R 336.2804, R 336.1225, 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 Dc, as they apply to EUB214BOILER4. **(40 CFR Part 60 Subparts A & Dc)**

The following conditions apply to: EUB214BOILER5

DESCRIPTION: 95.5 MMBTU/hr natural gas fired boiler with fuel oil as a backup fuel.

Flexible Group ID: FGB214BOILERS, FGFACILITY

POLLUTION CONTROL EQUIPMENT: Low NO_x burner to control NO_x emissions.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NO _x	12.1 tpy	12 month rolling time period, as determined at the end of each month	EUB214BOILER5	SC VI.1	R336.1205(1)(a)

II. MATERIAL LIMITS

1. The permittee shall burn only pipeline quality natural gas or fuel oil in EUB214BOILER5. **(R 336.1205, R 336.1225, R 336.1401, 40 CFR 52.21(c) & (d))**
2. The sulfur content of the fuel oil used in EUB214BOILER5 shall not exceed 0.5 percent by weight. **(R 336.1401, 40 CFR 60.42c(h))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. Fuel oil shall only be burned in EUB214BOILER5 during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year. **(40 CFR Part 63 Subpart JJJJJJ)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The design capacity of EUB214BOILER5 shall be less than 100 MMBTU/hr. **(R 336.1205(1)(a))**
2. The permittee shall equip and maintain, a device to monitor and record the natural gas and fuel oil usage in EUB214BOILER5. **(R 336.1205(1)(a), R 336.1225, 40 CFR 52.21(c) & (d), 40 CFR 60.48c(g))**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall monitor and record, in a satisfactory manner, the natural gas and fuel oil usage for EUB214BOILER5 per month, as determined at the end of each calendar month. **(R 336.1205(1)(a) & (3), R 336.1225, 40 CFR 52.21(c) & (d), 40 CFR 60.48c(g))**
2. 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 EUB214BOILER5, demonstrating that the fuel sulfur content meets the requirement of SC II.2. The certification or test data shall include the name of the oil supplier or laboratory, and the sulfur content of the fuel oil. **(R 336.1201(3), R 336.1401, 40 CFR 60.48c(f))**
3. The permittee shall record in a satisfactory manner the hours of operation while burning fuel oil in EUB214BOILER5 to demonstrate compliance with SC III.1. **(40 CFR Part 63 Subpart JJJJJJ)**
4. The permittee shall calculate and record, in a satisfactory manner, the NOx emissions in tons per year from EUB214BOILER5 on a monthly and 12-month rolling time period basis. **(R 336.1205(3))**

VII. REPORTING

1. The permittee shall submit written notification of the date of construction of EUB214BOILER5, to comply with the federal Standards of Performance for New Stationary Sources, 40 CFR 60.7. The permittee shall submit this notification to the AQD District Supervisor within 30 days after construction commences, as specified in 40 CFR 60.7. **(40 CFR 60.7)**
2. The permittee shall submit written notification of the actual date of initial startup of EUB214BOILER5, as provided by the federal Standards of Performance for New Stationary Sources, 40 CFR 60.7. Each notification shall include:
 - a. The design heat input capacity of EUB214BOILER5 and identification of fuels to be combusted.
 - b. The annual capacity factor at which the permittee anticipates operating EUB214BOILER5 based on all fuels fired and based on each individual fuel fired.The permittee shall submit these notifications to the AQD District Supervisor within 15 days after initial startup occurs. **(40 CFR 60.7, 40 CFR 60.48c(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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVB214BOILER5	54	205	R 336.2803, R 336.2804, R 336.1225, 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 Dc, as they apply to EUB214BOILER5. **(40 CFR Part 60 Subparts A & Dc)**

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
FGB214BOILERS	Three natural gas-fired boilers. EUB214BOILER5 has the capability to fire fuel oil as a backup fuel.	EUB214BOILER1 EUB214BOILER4 EUB214BOILER5
FGGENBLDGENGINES	Six 2922 bhp diesel fuel-fired reciprocating engine generators and one 470 bhp diesel fuel-fired reciprocating engine generator, used for emergency power generation.	EUENGINEGEN1 EUENGINEGEN2 EUENGINEGEN3 EUENGINEGEN4 EUENGINEGEN5 EUENGINEGEN6 EUENGINEGENAUX
FGB300ENGINES	Two 1850 bhp diesel fuel-fired reciprocating engine generators used for emergency power generation.	EUB300ENGINEGEN1 EUB300ENGINEGEN2
FGFACILITY	All process equipment source-wide including equipment covered by other permits, grand-fathered equipment and exempt equipment.	FGB214BOILERS FGGENBLDGENGINES FGB300ENGINES

The following conditions apply to: FGB214BOILERS

DESCRIPTION: Three natural gas fired boilers. EUB214BOILER1 is a 72.4 MMBTU/hr natural gas fired boiler, with a rated capacity of 70,000 lb steam/hr. EUB214BOILER4 is a 93.2 MMBTU/hr natural gas fired boiler. EUB214BOILER5 is a 95.5 MMBTU/hr natural gas fired boiler with the capability to fire fuel oil as a backup fuel.

Emission Units: EUB214BOILER1, EUB214BOILER2, EUB214BOILER5

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Natural gas fuel	500 MMscf/yr	12-month rolling time period as determined at the end of each month	FGB214BOILERS	VI.1	R 336.1205(1)(a) & (3)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn only natural gas in FGB214BOILERS, except EUB214BOILER5 which can also burn fuel oil. **(R 336.1205(1)(a) & (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))**

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall monitor and record, in a satisfactory manner, the natural gas fuel usage for FGB214BOILERS on a monthly basis. **(R 336.1205(1)(a) & (3))**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVB214BOILER1	48	205	R 336.2803, R 336.2804, R 336.1225, 40 CFR 52.21 (c) & (d)
2. SVB214BOILER4	54	205	R 336.2803, R 336.2804, R 336.1225, 40 CFR 52.21 (c) & (d)
3. SVB214BOILER5	54	205	R 336.2803, R 336.2804, R 336.1225, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENTS

NA

The following conditions apply to: FGGENBLDGENGINES

DESCRIPTION: Diesel fuel-fired reciprocating engine generators used for emergency power. There are six 2922 bhp engines and one 470 bhp engine.

Emission Units: EUENGINEGEN1, EUENGINEGEN2, EUENGINEGEN3, EUENGINEGEN4, EUENGINEGEN5, EUENGINEGEN6, EUENGINEGENAUX

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall burn only diesel No.2 fuel oil in FGGENBLDGENGINES.¹ **(R 336.1224, R 336.1225)**
2. The permittee shall operate FGGENBLDGENGINES in accordance with manufacturer's recommendations for safe and proper operation to minimize emissions during periods of startup, shutdown and malfunction. **(R 336.1912)**
3. The permittee shall not operate FGGENBLDGENGINES for more than 2026 hours per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1205(1)(a) & (3))**

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 monitor and record, in a satisfactory manner, the hours of operation of FGGENBLDGENGINES on a monthly basis in a manner that is acceptable to the District Supervisor, Air Quality Division. **(R 336.1205(1)(a) & (3))**
2. The permittee shall keep, in a satisfactory manner, records of the date, duration, and description of malfunctions and corrective maintenance performed that may impact the air emissions of FGGENBLDGENGINES. Also, results from any air emissions testing of FGGENBLDGENGINES must be maintained. **(R 336.1912)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

1. The exhaust gases from the emission units in FGGENBLDGENGINES shall be discharged from stacks that are unobstructed and vertical. **(40 CFR 52.21 (c) & (d))**

IX. OTHER REQUIREMENT(S)

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, for emergency Stationary Reciprocating Internal Combustion Engines. **(40 CFR Part 63 Subparts A & ZZZZ)**

Footnotes:

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

The following conditions apply to: FGB300ENGINES

DESCRIPTION: Diesel fuel-fired reciprocating engine generators used for emergency power. There are two 1850 bhp engines.

Emission Units: EUB300ENGINEGEN1, EUB300ENGINEGEN2

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall burn only diesel No. 2 fuel oil in FGB300ENGINES.¹ **(R 336.1224, R 336.1225)**
2. The permittee shall operate FGB300ENGINES in accordance with manufacturer's recommendations for safe and proper operation to minimize emissions during periods of startup, shutdown and malfunction. **(R 336.1912)**
3. The permittee shall not operate FGB300ENGINES for more than 1,000 hours per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1205(1)(a) & (3))**

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 monitor and record, in a satisfactory manner, the hours of operation of FGB300ENGINES on a monthly basis in a manner that is acceptable to the District Supervisor, Air Quality Division. **(R 336.1205(3))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

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, for emergency Stationary Reciprocating Internal Combustion Engines. **(40 CFR Part 63 Subparts A & ZZZZ)**

Footnotes:

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

The following conditions apply Source-Wide to: FGFACILITY

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NO _x	Less than 90 tons per year	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) and (3)

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

NA

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall monitor and record, in a satisfactory manner, the natural gas fuel usage, EUB214BOILER5 fuel oil usage, and engine operating hours for FGFACILITY on a monthly basis. The permittee shall calculate monthly and 12-month rolling time period NO_x emissions from FGFACILITY, and shall keep these calculations on file for a period of at least five years and make them available to the Department upon request. For the purpose of showing compliance with the NO_x emission limit in SC I.1, the permittee shall use appropriate NO_x emission factors. **(R 336.1205(1)(a) & (3))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA