

# Miami-Dade Water and Sewer Department South District Wastewater Treatment Plant

Facility ID No. 0250520

Miami-Dade County

Title V Air Operation Permit Renewal

**Permit No. 0250520-029-AV**

(Renewal of Title V Air Operation Permit No. 0250520-026-AV)



**Permitting Authority:**

State of Florida

Department of Environmental Protection

Division of Air Resource Management

Permit Review Section

2600 Blair Stone Road

Mail Station #5505

Tallahassee, Florida 32399-2400

Telephone: 850/717-9000

Email: [DARM\\_Permitting@dep.state.fl.us](mailto:DARM_Permitting@dep.state.fl.us)

**Compliance Authority:**

State of Florida

Department of Environmental Protection

Air Resource Management, Southeast District

3301 Gun Club Road; MSC 7210-1

West Palm Beach, Florida 33406

Telephone: 561/681-6600

Email (preferred): [SED.Air@FloridaDEP.gov](mailto:SED.Air@FloridaDEP.gov)

## Title V Air Operation Permit Renewal

Permit No. 0250520-029-AV

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# FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

**Ron DeSantis**  
Governor

**Jeanette Nuñez**  
Lt. Governor

**Alexis A. Lambert**  
Secretary

**PERMITTEE:**

Miami-Dade Water and Sewer Department  
P.O. Box 330316  
Miami, Florida 33233-0316

Permit No. 0250520-029-AV  
South District Wastewater Treatment Plant  
Facility ID No. 0250520  
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility. The existing South District Wastewater Treatment Plant is in Miami-Dade County at 8950 SW 232<sup>nd</sup> St., Miami, Florida. UTM Coordinates are: Zone 17, East (km) 566.59, North (km) 2825.63. Latitude is: 25° 32' 47.3413" North; and, Longitude is: 80° 20' 13.8474" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213, and 62-214. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Executed in Tallahassee, Florida.

0250520-029-AV Effective Date: January 14, 2025  
Renewal Application Due Date: June 3, 2029  
Expiration Date: January 14, 2030

David Lyle Read, P.E., Environmental Administrator SES  
Permit Review Section  
Division of Air Resource Management  
DLR/sms

## SECTION I. FACILITY INFORMATION.

### **Subsection A. Facility Description.**

The existing facility consists of a publicly owned wastewater treatment plant. The South District Wastewater Treatment Plant has a designed capacity of 112.5 million gallons per day based on annual average daily flow, and a peak hourly flow of 285 million gallons per day. Liquid processes at the facility include bar screens, aerated grit chambers, oxygenation tanks, secondary clarifiers and chlorine contact basins. Solids handling includes biosolids concentration tanks, primary and secondary anaerobic digesters, biosolids anaerobic storage tanks, centrifuges, drying bed dewatering, and static pile aerobic composting facilities.

Power for in-plant use is produced from four Cummins Model C2000 N6C low BTU fuel and natural gas cogeneration engines driving generators. These engines can burn digester gas from the facility, as well as conditioned (removed moisture and hydrogen sulfide gas) landfill gas from the nearby landfill. These co-generators produce electricity, and the waste heat is used to heat anaerobic digesters. The units are equipped with lean-burn low-combustion technology to reduce NOx emissions. These generators utilize a 37 hp Yanmar Model 3TNV88-DSA diesel engine driven air compressor to start when electricity is not available.

Power for in-plant use is also produced from four Electro Motive Division (EMD), Model 20-645E4B generators, consisting of a 3,600 horse power diesel-fueled internal combustion prime mover, each coupled to a 2,500 kW (2.5 MW) electrical generator; one EMD, Model 16-710G4A, that consists of a 3,800 hp diesel fueled internal combustion prime mover, coupled to a 2,700 kW (2.7) electrical generator with fuel rate calculated at 0.328 lb/bhp-hr and 7.034 lb/gal; one EMD, Model 20-645F4B, that consists of a 4,000 hp diesel fueled internal combustion prime mover, coupled to a 2,865 kW (2.865 MW) electrical generator. These generators utilize a 37 hp HATZ Model 2M41Z diesel engine driven air compressor to start when electricity is not available.

Additional stand-by power is produced from seven 4,000 hp diesel engine driven generators, each coupled to a 2,865-kw electrical generator. The generators are manufactured by Electro Motive Division (EMD) Model No. 16-710G4C-T2. These generators utilize a 25 hp Kohler Model KD625-2 diesel engine (EPA Tier 4 Certified) driven air compressor to start when electricity is not available.

The facility also operates six flares (anaerobic digesters).

### **Subsection B. Summary of Emissions Units.**

EU No.	Brief Description
<i>Regulated Emissions Units</i>	
006	Diesel Engine Generator EMD Model 20-645E4B (No.1)
007	Diesel Engine Generator EMD Model 20-645E4B (No.2)
008	Diesel Engine Generator EMD Model 20-645E4B (No.3)
009	Diesel Engine Generator EMD Model 20-645E4B (No.4)
010	Diesel Engine Generator EMD Model 16-710G4A (No.5)
013	Diesel Engine Generator EMD Model 20-645F4B (No.6)
014	Emergency Generators Units Nos. 1 to 7
015	Low BTU Fuel & Natural Gas Co-generator. Cummins Model C2000 N6C, No. 4
016	Low BTU Fuel & Natural Gas Co-generator. Cummins Model C2000 N6C, No. 5
017	Low BTU Fuel & Natural Gas Co-generator. Cummins Model C2000 N6C, No. 6
018	Low BTU Fuel & Natural Gas Co-generator. Cummins Model C2000 N6C, No. 7
019	Kohler 25 HP Diesel Engine Driven Starting Air Compressor
020	Hatz 37 HP Diesel Engine Driven Starting Air Compressor
021	Yanmar 37 HP Diesel Engine Driven Starting Air Compressor

**SECTION I. FACILITY INFORMATION.**

023	Miami-Dade County Internal Services Department's (ISDs) gasoline dispensing facility unleaded gasoline fuel storage tanks
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005	Wastewater Treatment Plant Liquid Processes
012	Six Digester Gas Flares

Also included in this permit are miscellaneous insignificant emissions units and/or activities (see Appendix I, List of Insignificant Emissions Units and/or Activities).

**Subsection C. Applicable Regulations.**

Based on the Title V air operation permit renewal application received July 1, 2024, this facility is not a major source of hazardous air pollutants (HAP). The existing facility is not a prevention of significant deterioration (PSD) major source of air pollutants in accordance with Rule 62-212.400, F.A.C. A summary of applicable regulations is shown in the following table.

<b>Regulation</b>	<b>EU No(s).</b>
<i>Federal Rule Citations</i>	
40 CFR 60, Subpart A, NSPS General Provisions	014, 015, 016, 017, 018, 019
40 CFR 60, Subpart IIII	014, 019
40 CFR 60, Subpart JJJJ	015, 016, 017, 018
40 CFR 63, Subpart A, NESHAP General Provisions	006, 007, 008, 009, 010, 013, 014, 020, 021, 023
40 CFR 63, Subpart ZZZZ, NESHAP	006, 007, 008, 009, 010, 013; 014, 020, 021
40 CFR 63, Subpart CCCCCC, NESHAP	023
<i>State Rule Citations</i>	
Rules 62-296.320, F.A.C.; 62-297.310, F.A.C.	006, 007, 008, 009, 010, 013, 014-021
Rule 62-296.570, F.A.C.- Reasonably Available Control Technology (RACT)	006, 007, 008, 009, 010, 013, 018-021
Rule 62-297.340, F.A.C.	006, 007, 008, 009, 010, 013

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## SECTION II. FACILITY-WIDE CONDITIONS.

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**The following conditions apply facility-wide to all emission units and activities:**

**FW1. Appendices.** The permittee shall comply with all documents identified in Section IV., Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

### **Emissions and Controls**

**FW2. Not federally Enforceable. Objectionable Odor Prohibited.** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An “objectionable odor” means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

**FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.** The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]

*{Permitting Note: Nothing is deemed necessary and ordered at this time.}*

**FW4. General Visible Emissions.** No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

**FW5. Unconfined Particulate Matter (PM).** No person shall cause, let, permit, suffer or allow the emissions of unconfined PM from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined PM at this facility include:

- a. Paving and maintenance of roads, parking areas, and yards.
- b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
- c. Application of asphalt, water, oil, chemicals, or other dust suppressants to unpaved roads, yards, open stock piles, and similar sources.
- d. Removal of particulate matter from buildings or work area to prevent particulate from becoming airborne.
- e. Landscaping or planting of vegetation.
- f. Use of hoods, fans, filters, and similar equipment to contain and or vent particulate matter.
- g. Confining abrasive blasting, where possible.

[Rule 62-296.320(4)(c), F.A.C.; and proposed by applicant in Title V air operation permit renewal application received July 1, 2024.]

### **Reports and Fees**

See Appendix RR, Facility-wide Reporting Requirements, for additional details and requirements.

**FW6. Electronic Annual Operating Report (eAOR) and Title V Annual Emissions Fees.** The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection’s Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP’s Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of subsection

## SECTION II. FACILITY-WIDE CONDITIONS.

62-210.370(2), F.A.C. Each Title V source must pay between January 15 and April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C. The annual fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source's most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions are subject to the fee and the total Title V Annual Emissions Fee that is due. The submission of the annual Title V emissions fee payment is also due (postmarked) by April 1<sup>st</sup> of each year. A copy of the system-generated EAOR Title V Annual Emissions Fee Invoice and the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070**. Additional information is available by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: <https://floridadep.gov/air/permitting-compliance/content/title-v-fees>. [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and §403.0872(11), Florida Statutes (2013).]

*{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: <http://www.dep.state.fl.us/air/emission/eaor>. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at [eaor@dep.state.fl.us](mailto:eaor@dep.state.fl.us).}*

*{Permitting Note: The Title V Annual Emissions Fee form (DEP Form No. 62-213.900(1)) has been repealed. A separate Annual Emissions Fee form is no longer required to be submitted by March 1st each year.}*

**FW7. Annual Statement of Compliance (ASOC).** The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit and to the US. EPA at the address shown below within 60 days after the end of each calendar year during which the Title V air operation permit was effective. (See also Appendix RR, Conditions RR1 and RR7.) The annual statement of compliance can be submitted to the U.S. EPA via the Compliance and Emissions Data Reporting Interface (CEDRI) on EPA's Central Data Exchange (CDX) at <https://cdx.epa.gov/>. [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

U.S. Environmental Protection Agency, Region 4  
Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303  
Attn: Air Enforcement Branch

**FW8. Prevention of Accidental Releases (Section 112(r) of CAA).** If, and when, the facility becomes subject to 112(r), the permittee shall:

- a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the following address: <https://cdx.epa.gov>. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: <https://www.epa.gov/rmp>. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.
- b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68.]

**FW9. Semi-Annual Reports.** The permittee shall monitor compliance with the terms and conditions of this permit and shall submit reports at least every six months to the compliance office. Each semi-annual report shall cover the 6-month periods of January 1 - June 30 and July 1 - December 31. The reports shall be submitted by the 60<sup>th</sup> day following the end of each calendar half (i.e., March 1<sup>st</sup> and August 29<sup>th</sup> of every year). All instances of deviations from permit requirements (including conditions in the referenced Appendices) must be clearly identified in such reports, including reference to the specific requirement and the



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## SECTION II. FACILITY-WIDE CONDITIONS.

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duration of such deviation. If there are no deviations during the reporting period, the report shall so indicate. Any semi-annual reporting requirements contained in applicable federal NSPS or NESHAP requirements may be submitted as part of this report. The submittal dates specified above shall replace the submittal dates specified in the federal rules. All additional reports submitted as part of this report should be clearly identified according to the specific federal requirement. All reports shall include a certification by a responsible official, pursuant to subsection 62-213.420(4), F.A.C. [Rule 62-213.440(1)(b)3.a., F.A.C.; and, 40 CFR 60.19(d), 40 CFR 61.10(h) & 40 CFR 63.10(a)(5).]

A summary of the required semi-annual reports for informational purposes is given in the table below.

Overall Facility		
Report	Reporting Deadline	Related Condition(s) and Regulation(s)
Semi-annual	March 1 <sup>st</sup> and August 29 <sup>th</sup>	FW9.
Emissions Unit No. 006, 007, 008, 009, 010, and 013 Standby Diesel Generators		
Report	Reporting Deadline	Related Condition(s)
Semiannual Compliance Report	Semiannually July 31 <sup>st</sup> or January 31 <sup>st</sup>	A.35.
Notification of Intent to Conduct a Performance Test	60 days prior to performance test	A.33.

*(See also Conditions RR2. - RR4. of Appendix RR, Facility-wide Reporting Requirements, for additional reporting requirements related to deviations.)*

*{Permitting Note: EPA has clarified that, pursuant to 40 CFR 70.6(a)(3), the word “monitoring” is used in a broad sense and means monitoring (i.e., paying attention to) the compliance of the source with all emissions limitations, standards, and work practices specified in the permit.}*

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**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.****Subsection A. EUs 006, 007, 008, 009, 010, and 013 - Standby Diesel Generators**

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description	Stack Height	Control Device
006	Diesel Engine Generator EMD Model 20-645E4B (No. 1)	21'	One shared Catalytic Converter to control CO. Miratech Model MIRA-Monitor
007	Diesel Engine Generator EMD Model 20-645E4B (No. 2)		
008	Diesel Engine Generator EMD Model 20-645E4B (No. 3)		
009	Diesel Engine Generator EMD Model 20-645E4B (No. 4)		
010	Diesel Engine Generator EMD Model 16-710G4A (No. 5)		
013	Diesel Engine Generator EMD Model 20-645F4B (No. 6)		

*{Permitting Note: This part of the subsection addresses “existing” stationary CI RICE greater than 500 HP that are located at an area source of HAP and that have been constructed or reconstructed before 12/19/2002. This RICE is not used as a fire pump.}*

E.U. ID No.	Engine Brake HP	Date of Initial Startup	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Manufacturer
						Model #
006	3,620	10-31-1982	Ultra-Low Diesel No. 2	Non-Emergency*	10.57	EMD
						20-645E4B
007	3,620	10-31-1982	Ultra-Low Diesel No. 2	Non-Emergency*	10.57	EMD
						20-645E4B
008	3,620	10-31-1982	Ultra-Low Diesel No. 2	Non-Emergency*	10.57	EMD
						20-645E4B
009	3,620	10-31-1982	Ultra-Low Diesel No. 2	Non-Emergency*	10.57	EMD
						20-645E4B
010	4,500	5-1-1995	Ultra-Low Diesel No. 2	Non-Emergency*	11.6	EMD
						16-710G4A
013	4000	4-4-2006	Ultra-Low Diesel No. 2	Non-Emergency*	18.37	EMD
						20-645F4B

\*Load Sharing Contract with Electric Utility precludes generators from qualifying as an emergency engine per 40 CFR 63, Subpart ZZZZ.

EUs 006, 007, 008, and 009 are EMD Model 20-645E4B prime movers manufactured by General Motors Electro Motive Division. Each are coupled to a 2,500 kW generator. These prime movers are turbocharged diesel-fueled reciprocating internal combustion engines that operate at 900 rpm. These units began commercial operation on October 31, 1982.

EU 010 is a Model No. 16-710G4A prime mover manufactured by General Motors Electro Motive Division. The prime mover is a turbocharged diesel fueled reciprocating internal combustion engine that operates at 900 rpm and is coupled to a 2,700 kW generator. Commercial operation for this unit began May 1, 1995.

EU 013 is an EMD Model 20-645F4B prime mover manufactured by General Motors Electro Motive Division. The prime mover is a turbocharged diesel fueled reciprocating internal combustion engine that operates at 900 rpm and is coupled to a 2,865 kW generator. This unit began operation April 4, 2006.

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection A. EUs 006, 007, 008, 009, 010, and 013 - Standby Diesel Generators

*{Permitting Note: These emissions units are subject to the requirements of 40 CFR part 63 subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocation Internal Combustion Engines" as adopted by Rule 62-204.800(11)(b)82, F.A.C.; 40 CFR 63, Subpart A- General Provisions; and Rule 62-296.570(4)(b)7, F.A.C.}*

#### **Essential Potential to Emit (PTE) Parameters**

##### **A.1. Methods of Operation - (i.e., Fuels):**

- a. These emissions units shall burn only No. 2 diesel fuel oil with sulfur content not to exceed 0.05 percent by weight. The fuel must have a minimum cetane index of 40 or must have a maximum aromatic content of 35 volume percent. [Rule 62-212.400(4), F.A.C. BACT determination for SO<sub>2</sub>.]
- b. Each engine shall use diesel fuel that meets the following requirements of 40 CFR 80.510(b) for nonroad diesel fuel:
  - i. Sulfur content: 15ppm maximum for NR diesel fuel
  - ii. Cetane index or aromatic content, as follows:
    - (1) A minimum cetane index of 40; or
    - (2) A maximum aromatic content of 35 volume percent.

[40 CFR 63.6604(a); 40 CFR 80.510(b)(1)(i), (b)(2); and, Rule 62-204.800(11)(b)82., F.A.C.]

##### **A.2.** The maximum consumption of No. 2 fuel allowed to be burned in Emission Units 006, 007, 008, 009, 010 013 and 014 shall not exceed 425,000 gallons per year in any consecutive 365-day period. [Rule 62-213.410, F.A.C.; Permit No. 0250520-013-AC; and, Requested by applicant on the initial and renewal application to escape PSD applicability based on NO<sub>x</sub> emissions of 229.43 TPY.]

##### **A.3. Engine Startup:** During periods of startup the permittee shall minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for the appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 CFR 63.6625(h); and Rule 62-204.800(11)(b)82., F.A.C.]

##### **A.4. Hours of Operation (Normal Operation):** Each stationary RICE may operate continuously (8,760 hours a year) if necessary. [40 CFR 63.6640(f)(1); and, Rule 62-204.800(8)(b)82., F.A.C.]

##### **A.5. Catalyst Operating Limitations:** The following shall be met except during periods of startup:

- a. The permittee shall maintain catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial performance test; and
- b. maintain the temperature of each stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.

[40 CFR 63.6603(a); Table 2b.2.a., and b. to Subpart ZZZZ of Part 63; Rule 62-204.800(11)(b)82, F.A.C.; and, Permit No. 0250520-022-AV.]

*{Permitting Note: Sources can petition the Department pursuant to the requirements of 40 CFR 63.8(f) for a different temperature range.}*

##### **A.6. Continuous Compliance:** At all times, each unit:

- a. Shall be in compliance with the operating limitations in 40 CFR 63, Subpart ZZZZ.
- b. Shall be operated and maintained in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.6605(a) and (b); and, Rule 62-204.800(11)(b)82., F.A.C.]

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection A. EUs 006, 007, 008, 009, 010, and 013 - Standby Diesel Generators

##### Control Technology

- A.7.** The oxidation catalysts on the generators have been installed with Continuous Parameter Monitoring Systems (CPMS) to monitor the catalyst inlet temperatures. If the catalyst is changed, the permittee must reestablish the values of the operating parameters measured during the initial performance test. When reestablishing the values of the operating parameters, the permittee must also conduct a performance test to demonstrate that the emissions unit is meeting the required emission limitation applicable to the stationary RICE. [Rule 40 CFR 63.6603; 40 CFR 63.6640(b); Table 2d of 40 CFR 63, Subpart ZZZZ; Rule 62-204.800(11)(b)82., F.A.C.; and, Requested by permittee in Permit No. 0250520-022-AV.]

##### Emission Limitations and Standards

Unless otherwise specified, the averaging times for **Specific Condition Nos. A.8. and A.9.** are based on the specified averaging time of the applicable test method.

**A.8.** Nitrogen Oxide (NOx) Emissions:

- a. NOx emissions from each of the emission units 006-010 and 013 shall not exceed 4.75 lbs/MMBtu heat input. [Rule 62-296.570(4)(b)7, F.A.C. (RACT); requested in the renewal application 0250520-022-AV dated September 25, 2014.]
- b. NOx emissions from each of the emission units 006-010, 013 and 014 shall not exceed combined 139.44 TPY. [Permit No. 0250520-022-AV to Escape PSD.]
- c. Exception for Startup, Shutdown, or Malfunction. The emission limits in Rule 62-296.570 shall apply at all times except during periods of startup, shutdown, or malfunction as provided by Rule 62-210.700, F.A.C. Excess emissions resulting from startup, shutdown or malfunction shall only apply to unit-specific emission limits established on or before October 23, 2016, pursuant to Rules 62-212.400 and 62-212.500, F.A.C. [Rule 62-296.570(c), F.A.C.]

**A.9.** CO Emissions:

- a. Each engine's oxidative catalysts shall limit the concentration of the CO in engine exhaust by 70 percent or more; or limit concentration of CO in the stationary RICE exhaust to 23 parts per million by volume, dry (ppmvd) or less at 15 percent O<sub>2</sub>. [40 CFR 63.6640(b); Table 2d; and, Rule 62-204.800(11)(b)82., F.A.C.]
- b. CO emissions from each of the emission units 006-010, 013, 014, 015-018 combined shall not exceed 241.03 TPY. [Permit No. 0250520-022-AV to Escape PSD.]

##### Monitoring of Operations

- A.10.** Fuel Consumption: The permittee shall monitor fuel consumption for emission units 006-010, 013 by metering the fuel between the storage tank and the bank of generators, and at the fuel return line between the emissions units and the main storage tanks whenever any one of these emissions units are in operation. [Permit No. 0250520-003-AC.]
- A.11.** Meter Fuel Calibration: Calibration of the fuel meters shall be conducted in accordance with manufacturer's schedule and recommendation. All calibration data shall be maintained at the facility physical location for inspection. [Permit Nos. 0250520-003-AC; and 0250520-007-AC.]
- A.12.** Diesel Fuel Sulfur Content Certification: For each load of fuel delivered to the facility, the permittee shall either:
- a. Obtain a copy of the fuel analysis from the supplier. Methods for determining the fuel sulfur content of the distillate oil shall be ASTM Method D 129-91, D 1552-95, D 2622-94, D 4294-98 or comparable Department approved method. Records shall specify the test method used. Or,
  - b. Collect a fuel sample to be sent for laboratory analysis based on one of the following methods: ASTM Method D 129-91, D 1552-95, D 2622-94, D 4294-98 or comparable Department approved method.

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- c. Records from the fuel supplier that indicates the fuel delivered is Low Sulfur No. 2 Diesel fuel oil by ASTM Method 975-98b, or current version. Specification for Diesel Fuel Oils provides for this classification of diesel fuel oils as having no more than 0.05 percent (500 ppm) sulfur content by weight.

[Permit No. 0250520-013-AC.]

#### **Continuous Monitoring, Operation and Maintenance Requirements**

**A.13. Continuous Parameter Monitoring System (CPMS):** The permittee installed a Continuous Parameter Monitoring System (CPMS) as specified in Table 5 of 40 CFR 63, Subpart ZZZZ, the permittee must operate, and maintain each CPMS according to the requirements in this specific condition.

- a. Site-specific monitoring plan.
- b. Operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.
- c. The CPMS must collect data at least once every 15 minutes (see also 40 CFR 63.6635 in **Specific Condition No. A.14.**).
- d. For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.
- e. Conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.
- f. Conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

[40 CFR 63.6625(b)(1) - (6); Table 5 to 40 CFR 63 Subpart ZZZZ, Item 1; and, Rule 62-204.800(11)(b)82, F.A.C.]

**A.14. Continuous Compliance Requirements:** Compliance with emission and operating limitations, the permittee must monitor and collect data according to this specific condition.

- a. Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the permittee must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- b. The permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The permittee must, however, use all the valid data collected during all other periods.

[40 CFR 63.6635(a) - (c); and, Rule 62-204.800(11)(b)82, F.A.C.]

**A.15. Continuous Compliance Demonstration Requirements:** The permittee shall demonstrate continuous compliance with each emission limitation, operating limitation and other requirements in **Specific Conditions A.6., A.8. and A.9.** according to the below methods:

- a. Conduct performance tests every 8,760 hours or 3 years, whichever comes first, for CO to demonstrate that the required CO percent reduction is achieved or that the emissions remain at or below the CO concentration limit stated in **Specific Condition A.9.**; and
- b. Collect the catalyst inlet temperature data according to **Specific Condition A.13.**; and
- c. Reduce these data to 4-hour rolling averages; and
- d. Maintain the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
- e. Measure the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.

[40 CFR 63.6640(a), Table 6 of 40 CFR 63 Subpart ZZZZ, Item 10; and, Rule 62-204.800(11)(b)82., F.A.C.]

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##### Test Methods and Procedures

**A.16. Test Methods:** Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
3A	Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources
7 or 7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [62-297.401, F.A.C.]

**A.17. Common Testing Requirements:** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

*{Permitting Note: Air compliance test notifications can now be completed online in the Department's Business Portal. To access this online process, go to <http://www.fldepportal.com/go/home> and sign in (or register if you're a new user) from the link in the upper right corner of the page. On the Welcome page select the Submit option, then select Registration/Notification, and then click on Air Compliance Test Notifications. Once in the process, just carefully read the instructions on each screen (and under the Help tabs) to complete the notification.}*

**A.18. CO Testing Frequency:** The permittee must conduct performance tests every 8,760 hours or 3 years, whichever comes first. [40 CFR 63.6615 Table 3; and, Rule 62-204.800(11)(b)82., F.A.C.]

**A.19. Measurements to Determine O<sub>2</sub> and CO:**

- Measurements to Determine O<sub>2</sub>.* The permittee must measure the O<sub>2</sub> at the inlet and outlet of the control device using a portable CO and O<sub>2</sub> analyzer according to the ASTM D6522-00 (2005) (incorporated by reference, see 40 CFR 63.14) requirements. Measurements to determine O<sub>2</sub> must be made at the same time as the measurements for CO concentration. Methods 3A and 10 may also be used as options to ASTM-D6522-00 (2005).
- Measurements to Determine CO.* The permittee must measure the CO at the inlet and the outlet of the control device using a portable CO and O<sub>2</sub> analyzer according to the ASTM D6522-00 (2005) (incorporated by reference, see 40 CFR 63.14) or Method 10 of 40 CFR appendix A requirements. The CO concentration must be at 15 percent O<sub>2</sub>, dry basis. Methods 3A and 10 may also be used as options to ASTM-D6522-00 (2005). Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 may also be used.

[40 CFR 63.6620 Table 4 of 40 CFR 63 Subpart ZZZZ; and, Rule 62-204.800(11)(b)82., F.A.C.]

**A.20. NO<sub>x</sub> Annual Compliance Tests Required:** Annual testing shall mean no less frequently than once every calendar year (January 1 - December 31), each Emission Unit shall be tested to demonstrate compliance with the emissions standards for NO<sub>x</sub>. Annual compliance testing while firing diesel fuel oil is unnecessary for units operating on diesel fuel oil for less than 400 hours in the current federal fiscal year. [Rule 62-297.310(8); and, 62-296.570(4)(a)3, F.A.C.]

**A.21. Performance Testing- Non-Operational Engine:** If the permittee owns or operates a non-operational stationary RICE that is subject to performance testing, the permittee does not need to start up the

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engine solely to conduct the performance test. The permittee can conduct the performance test when the engine is started up again. [40 CFR 63.6620(b), and, Rule 62-204.800(11)(b)82., F.A.C.]

**A.22. Performance Testing- Test Runs:** Each performance test shall consist of three separate test runs, as specified in 40 CFR 63.7(e)(3). Each test run must last at least 1 hour. [40 CFR 63.6620(d); and, Rule 62-204.800(11)(b)82., F.A.C.]

**A.23.** The permittee must use Equation 1 of this specific condition to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (\text{Eq. 1})$$

Where:

$C_i$  = concentration of carbon monoxide (CO), total hydrocarbons (THC), or formaldehyde at the control device inlet,

$C_o$  = concentration of CO, THC, or formaldehyde at the control device outlet, and

R = percent reduction of CO, THC, or formaldehyde emissions.

a. The permittee must normalize the CO, THC, or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO<sub>2</sub>). If pollutant concentrations are to be corrected to 15 percent oxygen and CO<sub>2</sub> concentration is measured in lieu of oxygen concentration measurement, a CO<sub>2</sub> correction factor is needed. Calculate the CO<sub>2</sub> correction factor as described in this specific condition.

(1) Calculate the fuel-specific  $F_o$  value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_o = \frac{0.209 F_d}{F_c} \quad (\text{Eq. 2})$$

Where:

$F_o$  = Fuel factor based on the ratio of oxygen volume to the ultimate CO<sub>2</sub> volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is oxygen, percent/100.

$F_d$  = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm<sup>3</sup>/J (dscf/10<sup>6</sup> Btu).

$F_c$  = Ratio of the volume of CO<sub>2</sub> produced to the gross calorific value of the fuel from Method 19, dsm<sup>3</sup>/J (dscf/10<sup>6</sup> Btu)

(ii) Calculate the CO<sub>2</sub> correction factor for correcting measurement data to 15 percent O<sub>2</sub>, as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \quad (\text{Eq. 3})$$

Where:

$X_{CO_2}$  = CO<sub>2</sub> correction factor, percent.

5.9 = 20.9 percent O<sub>2</sub>—15 percent O<sub>2</sub>, the defined O<sub>2</sub> correction value, percent.

(iii) Calculate the CO, THC, and formaldehyde gas concentrations adjusted to 15 percent O<sub>2</sub> using CO<sub>2</sub> as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \quad (\text{Eq. 4})$$

Where:

$C_{adj}$  = Calculated concentration of CO, THC, or formaldehyde adjusted to 15 percent O<sub>2</sub>.

$C_d$  = Measured concentration of CO, THC, or formaldehyde, uncorrected.

$X_{CO_2}$  = CO<sub>2</sub> correction factor, percent.

%CO<sub>2</sub> = Measured CO<sub>2</sub> concentration measured, dry basis, percent.

[40 CFR 63.6620(e); and, Rule 62-204.800(11)(b)82., F.A.C.]

**A.24. Performance Testing - Engine Percent Load:** The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load

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determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided. [40 CFR 63.6620(i); and, Rule 62-204.800(11)(b)82., F.A.C.]

- A.25. Emissions Unit Operating Rate Limitation After Testing:** See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C.]

#### **Recordkeeping and Reporting Requirements**

- A.26. Maintenance Records:** The permittee must keep records of the maintenance conducted on this unit in order to demonstrate that it is operated and maintained according to their own maintenance plan. [40 CFR 63.6655(e); and, Rule 62-204.800(11)(b)82., F.A.C.]
- A.27. Record Retention:**
- The permittee must keep records in a suitable and readily available form for expeditious reviews.
  - The permittee must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- [40 CFR 63.6660; Rule 62-204.800(11)(b)82., F.A.C.; 40 CFR 63.10(b)(1); and, Rule 62-204.800(11)(d)1., F.A.C.]
- A.28. Reporting Schedule:** The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Semiannual Compliance Report	Semiannually July 31 or January 31	<b>A.35.</b>
Notification of Intent to Conduct a Performance Test	60 days prior to performance test	<b>A.33.</b>

[Rule 62-213.440(1)(b), F.A.C.]

- A.29. Deviation Reports:** The permittee shall report each instance in which the emission limitation or operating limitation in **Specific Conditions A.6., A.8. and A.9.** is not met. These instances are deviations from the emission and operating limitations in 40 CFR 63 Subpart ZZZZ. These deviations must be reported according to the requirements in **Specific Condition Nos. A.35.-A.40.** [40 CFR 63.6640(b); and, Rule 62-204.800(11)(b)82., F.A.C.]
- A.30.** The permittee shall report each instance in which the requirements in Table 8 of 40 CFR 63 Subpart ZZZZ are not met. ***Refer to Specific Condition A.49.***
- A.31. Other Reporting Requirements:** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]
- A.32. Notification Requirements:** The permittee must submit all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you in 40 CFR 63, Subpart A-General Provisions. [40 CFR 63.6645(a); and, Rule 62-204.800(11)(b)82., F.A.C.]
- A.33. Notification of Intent to Conduct a Performance Test.** The permittee is required to conduct a performance test and must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR 63.7(b)(1). [40 CFR 63.6645(g); and, Rule 62-204.800(11)(b)82., F.A.C.]



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- A.34. Notification of Compliance Status.** The permittee is required to conduct a performance test as specified in Tables 4 and 5 of 40 CFR 63, Subpart ZZZZ, they must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii).
- For each compliance demonstration required in Table 5 of 40 CFR 63, Subpart ZZZZ that does not include a performance test, the permittee must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.
  - For each compliance demonstration required in Table 5 of 40 CFR 63, Subpart ZZZZ that includes a performance test conducted according to the requirements in Table 3 of 40 CFR 63, Subpart ZZZZ, the permittee must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to 40 CFR 63.10(d)(2).
- [40 CFR 63.6645(h); and, Rule 62-204.800(11)(b)82., F.A.C.]
- A.35. Semiannual Compliance Report:** Facility shall submit a semiannual compliance report, as required in Table 7 of 40 CFR part 63, subpart ZZZZ. The report must contain:
- If there are no deviations from any emission limitations or operating limitations that apply to the Permittee, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in 40 CFR 63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period; or
  - If the permittee had a deviation from any emission limitation or operating limitation during the reporting period, the information in 40 CFR 63.6650(d) **Specific Condition No. A.38.** If there were periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in 40 CFR 63.8(c)(7), the information in 40 CFR 63.6650(e) **Specific Condition No. A.39.**; or
  - If the permittee had a malfunction during the reporting period, the information in 40 CFR 63.6650(c)(4) **Specific Condition No. A.37.** The permittee must submit the report semiannually according to the requirements in 40 CFR 63.6650(b), **Specific Condition A.38.b.** must be stated.
- [40 CFR 63.6650 (except 63.6650(g)) Table 7; and, Rule 62-204.800(11)(b)82., F.A.C.]
- A.36. Semi-Annual Compliance Report -Submittal Requirement:** The permittee shall submit the report required as specified below:
- Each compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December
  - Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
- [40 CFR 63.6650(b)(3), (4); and, Rule 62-204.800(11)(b)82., F.A.C.]
- A.37. Semi-Annual Compliance Report Requirements:** The compliance report must contain the information in this specific condition as specified below:
- Company name and address.
  - Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
  - Date of report and beginning and ending dates of the reporting period.
  - If the permittee had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with **Specific Condition A.6.**, including actions taken to correct a malfunction.
  - If there are no deviations from any emission or operating limitations that apply to the permittee, a statement that there were no deviations from the emission or operating limitations during the

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reporting period.

- f. If there were no periods during which the CPMS, was out-of-control, as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

[40 CFR 63.6650(c); and, Rule 62-204.800(11)(b)82., F.A.C.]

**A.38. Semi-Annual Compliance Report - Deviation Requirements CMS:** For each deviation from an emission or operating limitation that occurs for a stationary RICE where a CMS is not in use to comply with the emission or operating limitations in this subpart, the compliance report must contain the information in **Specific Condition A.37.a.-d.** and the information in **a. and b.** of this specific condition.

- a. The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
- b. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

[40 CFR 63.6650(d); and, Rule 62-204.800(11)(b)82., F.A.C.]

**A.39. Semi-Annual Compliance Report -Deviation Requirements CPMS:** For each deviation from an emission or operating limitation occurring for a stationary RICE where the permittee is using a CPMS to comply with the emission and operating limitations in 40 CFR 63 Subpart ZZZZ, the permittee must include information in this specific condition below.

- a. The date and time that each malfunction started and stopped.
- b. The date, time, and duration that each CMS was inoperative, except for zero (low- level) and high-level checks.
- c. The date, time, and duration that each CMS was out-of-control, including the information in 40 CFR 63.8(c)(8).
- d. The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
- e. A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
- f. A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
- g. A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.
- h. An identification of each parameter and pollutant (CO) that was monitored at the stationary RICE.
- i. A brief description of the stationary
- j. A brief description of the CMS.
- k. The date of the latest CMS certification or audit.
- l. A description of any changes in CMS, processes, or controls since the last reporting period.

[40 CFR 63.6650(e); and, Rule 62-204.800(11)(b)82., F.A.C.]

**A.40. Semi-Annual Deviation Report Requirements:** The permittee shall report all deviations as defined in 40 CFR 63 Subpart ZZZZ in the semi-annual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A). If an affected source submits a compliance report pursuant to Table 7 of 40 CFR 63 Subpart ZZZZ along with, or as part of, the semi-annual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any emission or operating limitation in 40 CFR 63 Subpart ZZZZ, submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semi-annual monitoring report. However, submission of a compliance report shall not otherwise affect any obligation the affected source may have to report deviations from

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permit requirements to the Permit Authority. [40 CFR 63.6650(f); and, Rule 62-204.800(11)(b)82., F.A.C.]

- A.41.** The permittee must comply with the emission and operating limitations, you must keep the records described in this specific condition:
- A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).
  - Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.
  - Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
  - Records of all required maintenance performed on the air pollution control and monitoring equipment.
  - Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
  - For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.
  - Records described in 40 CFR 63.10(b)(2)(vi) through (xi).
- [40 CFR 63.6655(a), b; and, Rule 62-204.800(11)(b)82., F.A.C.]
- A.42.** The permittee must keep the records required in Table 6 of 40 CFR 63, Subpart ZZZZ to show continuous compliance with each emission or operating limitation that applies to the permittee **Specific Condition Nos. A.15., A.5. and A.6.** [40 CFR 63.6655(d); and, Rule 62-204.800(11)(b)82., F.A.C.]
- A.43.** Maintenance Records: The permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE and after-treatment control device were operated and maintained according to your own maintenance plan. [40 CFR 63.6655(e)(3); and, Rule 62-204.800(11)(b)82., F.A.C.]
- A.44.** Record Requirements: Records shall be retained as follows:
- The permittee records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).
  - As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
  - The permittee must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1).
- [40 CFR 63.6660(a), (b), (c); and, Rule 62-204.800(11)(b)82., F.A.C.]
- A.45.** Fuel Use: From the daily records of diesel fuel usage the permittee shall record and maintain a rolling 365-day total of the amount of fuel consumed by the generators. This rolling 365-day total record shall be updated each day. These records shall be used to demonstrate compliance with the fuel limitation. If the fuel consumption of all emission units combined does not exceed 425,000 gallons of diesel fuel at the end of any consecutive 365-day period; the permittee may make and maintain records of the fuel consumption for these emission units once every seven days instead of at the end of each day.

Daily consumption recording shall resume upon the weekly 365-day total exceeding 425,000 gallons of diesel fuel.

[Permit Nos. 0250520-003-AC; 0250520-007-AC; and, Permit No. 0250520-016-AV (requested in the renewal application dated April 13, 2009 to escape PSD).]

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- A.46.** Copies of the fuel supplier certifications shall be maintained at the facility physical location for inspection. [Permit No. 0250520-022-AV.]
- A.47.** All records required under this section shall be maintained by the permittee of the affected facility for a period of five (5) years following the date of such records and shall be available for inspection at the facility physical location. [Permit No. 0250520-022-AV.]
- A.48.** AOR Supplemental Information: Annual operating reports shall include the following supplemental information that was recorded in the previous calendar year:
- a. The highest sulfur percentage in the fuel received.
  - b. The highest 365-day total diesel fuel usage for the generators.
- [Permit Nos. 0250520-003-AC and 0250520-007-AC.]
- A.49.** 40 CFR 63 Subpart A, General Provisions. This engine shall comply with all applicable requirements of 40 CFR 63 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C., except that the Secretary is not the Administrator for purposes of 40 CFR 63.5(e), 40 CFR 63.5(f), 40 CFR 63.6(g), 40 CFR 63.6(h)(9), 40 CFR 63.6(j), 40 CFR 63.13, and 40 CFR 63.14. This engine shall comply with the applicable portions of Appendix 40 NESHAP Subpart A included with this permit, as specified below.

General Provisions Citation	Subject of Citation
§63.1	General applicability of the General Provisions
§63.2	Definitions
§63.3	Units and abbreviations
§63.4	Prohibited activities and circumvention
§63.5	Construction and reconstruction
§63.6(a)	Applicability
§63.9(i)	Adjustment of submittal deadlines
§63.9(j)	Change in previous information
§63.10(a)	Administrative provisions for recordkeeping/reporting
§63.10(b)(1)	Record retention
§63.10(b)(2)(vi)–(xi)	Records
§63.10(b)(2)(xii)	Record when under waiver
§63.10(b)(2)(xiv)	Records of supporting documentation
§63.10(b)(3)	Records of applicability determination
§63.10(d)(1)	General reporting requirements
§63.10(d)(4)	Progress Reports
§63.10(f)	Waiver for recordkeeping/reporting
§63.12	State authority and delegations
§63.13	Addresses
§63.14	Incorporation by reference
§63.15	Availability of information

[40 CFR 63.6665; and, Rule 62-204.800(11)(d)1., F.A.C.]

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. EUs 014 - Seven Identical Diesel Engine Generators

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description						
	Seven Identical Diesel Engine Generators EMD Model 16-710G4C-T2 (Nos. 1-7)						
014	Engine Brake HP	Date of Construction	Initial Startup	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Manufacturer
							Model #
	4,000	4-29-2008/	8-6-2012	Ultra-Low Diesel No. 2	Emergency*	11.635	EMD 16-710G4C-T2

\*These generators do not participate in a load sharing agreement with the utility.

Seven 4,000 hp diesel engine driven generators, each coupled to a 2,865 kw electrical generator. Generators are manufactured by Electro Motive Division (EMD) Model No. 16-710G4C-T2. These generators were constructed under permit 0250520-014-AC, and their construction start date was April 29, 2008. The diesel engines conform to Tier 2 Standards applicable to Category 2 marine engines manufactured on or after January 1, 2007. The engine family is AEMDN233.GT2 and the engines displace 710 cubic in (11.635 liter) per cylinder. These generators utilize a 25 hp Kohler Model KD625-2 diesel engine (EPA Tier 4 Certified) driven air compressor to start when electricity is not available.

The combined power output for all generators is 20.055 Megawatts. These emissions units are regulated as a group and they shared the facility-wide fuel limit of 425,000 gallons diesel fuel per year as requested by the permittee to escape PSD.

*{This emission unit is subject to the requirements of 40 CFR part 60 Subpart IIII standards of performance for stationary compression ignition internal combustion engines (CI;), adopted by Rule 62-204.800(8)(b)82, F.A.C.; and 40 CFR 63, Subpart A- General Provisions. By meeting the requirements for emergency engine, the emission unit does not have to meet the requirements of 40 CFR part 63 subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocation Internal Combustion Engines"; and Rule 62-296.570(4)(b)7, F.A.C.}*

#### **Essential Potential to Emit (PTE) Parameters**

- B.1. Methods of Operation - (i.e., Fuels):** Fuel burned shall be limited to No. 2 diesel fuel oil. [Permit No. 0250520-022-AV.]
- B.2. Hours of Operation:** This emission unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]
- B.3. Fuel Consumption Limits:** Diesel fuel consumption from Emission Units 006, 007, 008, 009, 010, 013 014 and 019 shall not exceed 425,000 gallons of No. 2 diesel fuel oil in any consecutive 365-day period. [Permit No. 0250520-022-AV.]

#### **Emission Limitations and Standards**

Unless otherwise specified, the averaging times for **Specific Condition Nos. B.4. - B.7.** are based on the specified averaging time of the applicable test method.

- B.4. Engine Requirements:** Each certified engine shall meet the emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants as required in (**Specific Condition Nos. B.5., B.6.a, and B.7.**) during the certified emissions life of the engines. [40 CFR 60.4202(e); 40 CFR 60.4206; Rule 62-204.800(8)(b)82, F.A.C.; and 40 CFR 94.8]

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. EUs 014 - Seven Identical Diesel Engine Generators

- B.5. THC + NO<sub>x</sub> Emissions:** Total Hydrocarbons and Nitrogen oxide emissions shall not exceed 7.8 g/kW-hr. [40 CFR 60.4202(e)(1); 40 CFR 94.8(a)(2)(i), Table A-1; and, Rule 62-204.800(8)(b)82, F.A.C.]
- B.6. Nitrogen Oxide (NO<sub>x</sub>) Limit:**
- Emissions of NO<sub>x</sub> for each engine shall not exceed 4.75 lb/MMBtu. [Rule 62-296.570(4)(b)7, F.A.C.; and Permit No. 0250520-022-AV.]
  - Emissions of NO<sub>x</sub> from EU 006-010, 013, 014 Combined shall not exceed 139.44 TPY. [Permit No. 0250520-022-AV to Escape PSD.]
  - Exception for Startup, Shutdown, or Malfunction. The emission limits in Rule 62-296.570 shall apply at all times except during periods of startup, shutdown, or malfunction as provided by Rule 62-210.700, F.A.C. Excess emissions resulting from startup, shutdown or malfunction shall only apply to unit-specific emission limits established on or before October 23, 2016, pursuant to Rules 62-212.400 and 62-212.500, F.A.C. [Rule 62-296.570(c), F.A.C.]
- B.7. CO Emissions:**
- Carbon monoxide emissions for each engine shall not exceed 5.0 g/kW-hr. [40 CFR 60.4202(e)(1); and Rule 62-204.800(8)(b)82, F.A.C.; 40 CFR 94.8(a)(2)(i), Table A-1.]
  - CO emissions from each of the emission units 006-010, 013, 014, 015-018 combined shall not exceed 241.03 TPY. [Permit No. 0250520-022-AV to Escape PSD.]
- B.8. PM Emissions:** Particulate matter emissions for each engine shall not exceed 0.27 g/kW-hr. [40 CFR 60.4202(e)(1); 40 CFR 94.8(a)(2)(i), Table A-1; and, Rule 62-204.800(8)(b)82, F.A.C.]
- B.9. Allowable Fuel:** The Stationary RICE must use diesel fuel that meets the following requirements for non-road diesel fuel:
- Sulfur Content.*
    - The sulfur content shall not exceed = 15 ppm = 0.0015% weight for non-road fuel.
    - The sulfur content shall not exceed = 500 ppm = 0.05% weight for locomotive and marine fuel.
  - Cetane and Aromatic.* The fuel must have a minimum cetane index of 40 or must have a maximum aromatic content of 35 volume percent. [40 CFR 60.4207(b); 40 CFR 80.510(b); and, Rule 62-204.800(8)(b)82, F.A.C.; and 80.510(b).]
  - The sulfur content of the No. 2 diesel fuel oil shall not exceed 0.05 percent by weight. [Permit No. 0250520-022-AV.]

#### Compliance

- B.10.** The permittee shall comply with the emission standards specified in **B.4., B.6., and B.7.,** by doing all of the following:
- Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
  - Change only those emission-related settings that are permitted by the manufacturer; and
  - Meet the requirements of 40 CFR part 94 for the same model year and maximum engine power (**Specific Condition Nos. B.5., B.6.a, and B.7.**). [40 CFR 60.4211(a), (c); and, Rule 62-204.800(8)(b)82, F.A.C.]
- B.11.** The permittee shall operate the emergency stationary ICE according to the requirements in **a. – c.,** of this specific condition. In order for the engine to be considered an emergency stationary ICE 40 CFR 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described **a. - c.** of this specific condition, is prohibited. If the permittee does not operate the engine according to the requirements in **a. – c.,** of this specific condition, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.
- There is no time limit on the use of emergency stationary ICE in emergency situations.

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection B. EUs 014 - Seven Identical Diesel Engine Generators

- b. The permittee may operate the emergency stationary ICE for any combination of the purposes specified in **b.**, of this specific condition for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by **c.**, of this specific condition counts as part of the 100 hours per calendar year allowed by **b.**, of this specific condition. Emergency stationary ICE may be operated for 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 owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but 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 ICE beyond 100 hours per calendar year.
- c. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in **b.**, of this specific condition. Except as provided in **c.**, of this specific condition, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
  - (1) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
    - i. The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
    - ii. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
    - iii. The power is provided only to the facility itself or to support the local transmission and distribution system.
    - iv. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[40 CFR 60.4211(f)(1), (2), and (3); and, Rule 62-204.800(8)(b)82, F.A.C.]

#### **Test Methods and Procedures**

**B.12. Compliance Requirements and Performance Test:** If the Permittee did not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or changed emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance by keeping a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

- a. NSPS Subpart IIII. In addition, the Permittee shall 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 the Permittee changed emission-related settings in a way that is not permitted by the manufacturer. The Permittee shall conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 CFR 60.4211(g), (g)(3); and, Rule 62-204.800(8)(b)82, F.A.C.]

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection B. EUs 014 - Seven Identical Diesel Engine Generators

- b. Performance Test to demonstrate compliance with 40 CFR 94.8. Demonstrate compliance with 40 CFR 94.8 exhaust emissions in accordance with the following: Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 94.8, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 94.8, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \quad (\text{Eq. 1})$$

Where:

STD = The standard specified for that pollutant in 40 CFR 94.8.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 94.8 may follow the testing procedures specified in [40 CFR 60.4213](#) of 40 CFR 60, Subpart III, as appropriate. [40 CFR 60.4212(c); and, Rule 62-204.800(8)(b)82, F.A.C.]

*{Permitting Note: Emissions testing only applies in the instance of compliance with this specific condition.}*

- B.13. Common Testing Requirements:** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

*{Permitting Note: Air compliance test notifications can now be completed online in the Department's Business Portal. To access this online process, go to <http://www.fldepportal.com/go/home> and sign in (or register if you're a new user) from the link in the upper right corner of the page. On the Welcome page select the Submit option, then select Registration/Notification, and then click on Air Compliance Test Notifications. Once in the process, just carefully read the instructions on each screen (and under the Help tabs) to complete the notification.}*

- B.14. Fuel Oil Consumption:** The permittee shall monitor fuel consumption on a daily basis by metering the fuel. [Permit No. 0250520-022-AV.]

- B.15. Fuel Meter Calibration:** Calibration of the fuel meter shall be conducted in accordance with the manufacturer schedule and recommendation. All calibration data shall be maintained at the facility for inspection. [Permit No. 0250520-022-AV.]

- B.16. Fuel Oil Certification:** The permittee shall demonstrate compliance with the fuel oil sulfur content limit for each shipment by using the most recent version of ASTM Methods D129, D2622, D4294, D1552, D2622, D4294 or other as incorporated in the current version of Chapter 62-297 F.A.C. The analysis may be performed by the permittee, a service contractor retained by the permittee, the fuel vendor, or any other qualified agency.

The permittee may also comply with this requirement by receiving records from the fuel supplier that indicate the fuel delivered is Low Sulfur No. 2 diesel fuel oil conforming to ASTM Specification 975-04a or later edition, grades 2-D S500 (500 ppm maximum sulfur) or 2-D S15 (15 ppm maximum sulfur).

[Permit No. 0250520-022-AV.]

- B.17. NO<sub>x</sub> Emissions Test Required:** The permittee shall conduct a compliance test at each engine that demonstrates compliance with NO<sub>x</sub> emission standard in **Specific Condition B.5.a.**, using the EPA Method 7 or 7E, during each calendar year (January 1 - December 31). Annual compliance testing while firing oil is unnecessary for units operating on oil for less than 400 hours in the current federal fiscal year. [Rule 62-296.570(4)(a)3., F.A.C.; and, Permit No. 0250520-022-AV.]

#### **Record Keeping and Reporting Requirements**

- B.18. Records:** The permittee shall record and maintain records of repairs or maintenance on a daily basis. The No. 2 fuel record shall be based on daily fuel meter readings. [Permit No. 0250520-022-AV.]

- B.19. Daily Records:** From the daily records of No. 2 fuel oil, the permittee shall record and maintain a rolling 365-day total record of the amount No. 2 fuel oil consumed by the generators which shall be updated each day



### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. EUs 014 - Seven Identical Diesel Engine Generators

to demonstrate compliance with the fuel limitation in **Specific Condition B.3**. [Permit No. 0250520-022-AV.]

**B.20. AOR Supplemental Information:** Annual operating report shall include the following supplemental information that was recorded in the previous calendar year:

- a. The highest 365-day total usage of No. 2 fuel oil.
- b. The highest percent sulfur content (by weight) of No. 2 fuel oil burned.

[Permit No. 0250520-022-AV.]

**B.21. Other Reporting Requirements:** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

#### **General Provisions**

**B.23. 40 CFR 60 Subpart A, General Provisions.** This engine shall comply with all applicable requirements of 40 CFR 60 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C. This engine shall comply with the applicable portions of Appendix 40 NSPS Subpart A included with this permit, as specified below.

General Provisions Citation	Subject of Citation
§ 60.1	General applicability of the General Provisions
§ 60.2	Definitions (see also § 60.4219)
§ 60.3	Units and abbreviations
§ 60.4	Address
§ 60.5	Determination of construction or modification
§ 60.6	Review of plans
§ 60.7	Notification and Recordkeeping (as specified in § 60.4214(a))
§ 60.8	Performance tests (if required)
§ 60.9	Availability of information
§ 60.10	State Authority
§ 60.12	Circumvention
§ 60.14	Modification
§ 60.15	Reconstruction
§ 60.16	Priority list
§ 60.17	Incorporations by reference
§ 60.19	General notification and reporting requirements

[40 CFR 60.4218]

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection C. EUs 015, 016, 017 and 018 - Low-BTU Fuel Cogeneration Cummins Engine Generators

The specific conditions in this section apply to the following emissions units:

EU ID No.	Emission Unit Description					
015	Low-BTU Fuel Cogeneration Cummins Engine Generator, Model C2000 N6C					
016	Low-BTU Fuel Cogeneration Cummins Engine Generator, Model C2000 N6C					
017	Low-BTU Fuel Cogeneration Cummins Engine Generator, Model C2000 N6C					
018	Low-BTU Fuel Cogeneration Cummins Engine Generator, Model C2000 N6C					
E.U. ID No.	Engine Brake HP	Date of Construction/ Initial Startup	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Manufacturer
						Model #
015	2,846	12-6-2012	Digester Gas/Landfill Gas/Natural Gas	Non-Emergency	5.09	Cummins C2000 N6C
016	2,846	8-19-2014	Digester Gas/Landfill Gas/Natural Gas	Non-Emergency	5.09	Cummins C2000 N6C
017	2,846	12-6-2012	Digester Gas/Landfill Gas/Natural Gas	Non-Emergency	5.09	Cummins C2000 N6C
018	2,846	1-9-2015	Digester Gas/Landfill Gas/Natural Gas	Non-Emergency	5.09	Cummins C2000 N6C

\*Co-generator with an electrical output rating of 2000 kW.

*{Permitting Note: These emissions units are subject to the requirements of 40 CFR part 60 Subpart JJJJ standards of performance for stationary spark ignition internal combustion engines (SI), adopted by Rule 62-204.800(8)(b)83, F.A.C. By meeting the requirements of subpart JJJJ, the engines are also meeting the requirements of 40 CFR part 63 subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocation Internal Combustion Engines"; and Rule 62-296.570(4)(b)7, F.A.C.}*

#### **Essential Potential to Emit (PTE) Parameters**

**C.1. Methods of Operation - (i.e., Fuels).** Fuel burned shall be limited to treated digester gas, treated landfill gas from the adjacent South Miami-Dade County Landfill and natural gas. [Permit No. 0250520-019-AC.]

**C.2. Hours of Operation:** The combined hours of operation for these emission units (EU 015-018) shall not exceed 22,500 hours in any consecutive 12-month period.

*{Permitting Note: EU018 is specifically for redundancy, and will operate along with the existing four cogeneration units (EUs 015-018) under the current 22,250 operating hours per year cap. Therefore, potential emissions will not increase.}*

[Rule 62-210.200(PTE), F.A.C.; and, Permit No. 0250520-019-AC.]

#### **Emission Limitations and Standards**

Unless otherwise specified, the averaging times for **Specific Condition No. C.3. - C.5.**, are based on the specified averaging time of the applicable test method.

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection C. EUs 015, 016, 017 and 018 - Low-BTU Fuel Cogeneration Cummins Engine Generators

- C.3. Nitrogen Oxides (NO<sub>x</sub>) Emissions:** Nitrogen dioxide (NO<sub>x</sub>) emissions from EUs 015-018 shall not exceed:
- 79.45 tons (EU 15-18) in any consecutive 12-month period. NO<sub>x</sub> emissions from each engine shall not exceed 6.27 pounds per hour. [Permit No. 0250520-019-AC to escape PSD.]
  - NO<sub>x</sub> emissions from each of the emission units 015-018 shall not exceed 4.75 lbs/MMBtu heat input. [Rule 62-296.570(4)(b)7, F.A.C. (RACT).]
  - Exception for Startup, Shutdown, or Malfunction. The emission limits in Rule 62-296.570 shall apply at all times except during periods of startup, shutdown, or malfunction as provided by Rule 62-210.700, F.A.C. Excess emissions resulting from startup, shutdown or malfunction shall only apply to unit-specific emission limits established on or before October 23, 2016, pursuant to Rules 62-212.400 and 62-212.500, F.A.C. [Rule 62-296.570(c), F.A.C.]
  - 3.0 g/HP-hr or 220 ppmvd @ 15%O<sub>2</sub>. The permittee of may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O<sub>2</sub>. [40 CFR 60.4233(e); Table 1 of Subpart JJJJ of Part 60 CFR; and, Rule 62-204.800(8), F.A.C]
  - When firing Natural Gas. 1.0 g/HP-hr or 82 ppmvd @ 15%O<sub>2</sub>. The permittee of may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O<sub>2</sub>. [40 CFR 60.4233(e); Table 1 of Subpart JJJJ of Part 60 CFR; and, Rule 62-204.800(8), F.A.C]
- C.4. Carbon Monoxide (CO) Emissions:** CO emissions for each EUs 015-018 shall not exceed:
- 5.0 g/HP-hr or 610 ppmvd @ 15%O<sub>2</sub>. The permittee of may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O<sub>2</sub>. [40 CFR 60.4233(e); Table 1 of Subpart JJJJ of Part 60 CFR; and, Rule 62-204.800(8), F.A.C]
  - When firing Natural Gas. 2.0 g/HP-hr or 270 ppmvd @ 15%O<sub>2</sub>. The permittee of may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O<sub>2</sub>. [40 CFR 60.4233(e); Table 1 of Subpart JJJJ of Part 60 CFR; and, Rule 62-204.800(8), F.A.C]
  - 215 tons in any consecutive 12-month period. [Permit No. 0250520-019-AC.]
  - 18.45 pounds per hour for EU 015-018. [Permit No. 0250520-019-AC.]
  - CO emissions from emission units 006-010, 013, 014, 015-018 combined shall not exceed 241.03 TPY. [Permit No. 0250520-022-AV to Escape PSD.]
- C.5. Volatile Organic Compounds (VOC) Emissions:** VOC emissions for each EUs 015-018 shall not exceed:
- 1.0 g/HP-hr or 80 ppmvd @ 15%O<sub>2</sub>. The permittee of may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O<sub>2</sub>. [40 CFR 60.4233(e); Table 1 of Subpart JJJJ of Part 60 CFR; and, Rule 62-204.800(8), F.A.C]
  - When firing Natural Gas. 0.7 g/HP-hr or 60 ppmvd @ 15%O<sub>2</sub>. The permittee of may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O<sub>2</sub>. [40 CFR 60.4233(e); Table 1 of Subpart JJJJ of Part 60 CFR; and, Rule 62-204.800(8), F.A.C]
- {Permitting Note: The emission standards for NO<sub>x</sub> and CO will be significantly less than that required in Subpart JJJJ in order to comply with the allowable required to meet the 250 tons/year limitation in order to escape PSD. For VOC in Table 1 of 40 CFR 60 Subpart JJJJ, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.}*
- [Permit Nos. 0250520-019-AC; 40 CFR 60.4233(e); Table 1 of 40 CFR 60, Subpart JJJJ; and, Rule 62-204.800(8)(b)83, F.A.C.]
- C.6.** The permittee shall operate and maintain each stationary SI ICE such that achieves the emission standards as required in Table 1 of 40 CFR 60, Subpart JJJJ (**Specific Condition No. C.3.d., C.4.a., and C.5.**) over the entire life of the engines. [40 CFR 60.4234; and, Rule 62-204.800(8)(b)83, F.A.C.]
- C.7. Purchase A Certified Engine:** The permittee shall demonstrate compliance by purchasing an engine certified according to procedures specified in 40 CFR 60, Subpart JJJJ, Table 1, for the same model year and demonstrating compliance according **Specific Condition No. C.3. - C.5.** [40 CFR 60.4243(b)(1); and, Rule 62-204.800(8)(b)83, F.A.C.]

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection C. EUs 015, 016, 017 and 018 - Low-BTU Fuel Cogeneration Cummins Engine Generators

##### Test Methods and Procedures

- C.8. Annual Compliance Tests:** During each calendar year (January 1 - December 31), each emissions unit shall be tested to demonstrate compliance with the emissions standards for CO, NO<sub>x</sub> and VOC's. [Rule 62-297.310(8)(a)1, F.A.C.; and, Rule 62-296.570(4)(a)3., F.A.C.]
- C.9. Test Requirements:** The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]
- C.10. Test Methods:** Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources (The method shall be based on a continuous sampling train.)
18	Measurement Of Gaseous Organic Compound Emissions By Gas Chromatography
320	Vapor Phase Organic & Inorganic Emissions by Extractive FTIR

The above methods are described in Appendix A of 40 CFR 60 or Appendix A of 40 CFR part 63, and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rules 62-204.800(8)(b)83, F.A.C.; 62-297.100, F.A.C.; and, Appendix A of 40 CFR 60.]

- C.11.** The performance tests shall follow the procedures in **a. through g.** of this specific condition.
- Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in 40 CFR 60.8 and under the specific conditions that are specified by Table 2 to subpart JJJJ (this specific condition).
  - The permittee shall not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c). If the stationary SI internal combustion engine is non-operational, the permittee does not need to start-up the engine solely to conduct a performance test; however, the permittee must conduct the performance test immediately upon startup of the engine.
  - The permittee shall conduct three separate test runs for each performance test required in this specific condition, as specified in 40 CFR 60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.
  - To determine compliance with the NO<sub>x</sub> mass per unit output emission limitation, convert the concentration of NO<sub>x</sub> in the engine exhaust using Equation 1 of this specific condition:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{HP - hr} \quad (Eq. 1)$$

Where:

ER = Emission rate of NO<sub>x</sub> in g/HP-hr.

C<sub>d</sub> = Measured NO<sub>x</sub> concentration in parts per million by volume (ppmv).

1.912×10<sup>-3</sup> = Conversion constant for ppm NO<sub>x</sub> to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, horsepower-hour (HP-hr).

- To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of this specific condition:

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection C. EUs 015, 016, 017 and 018 - Low-BTU Fuel Cogeneration Cummins Engine Generators

$$ER = \frac{C_d \times 1.164 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 2})$$

Where:

ER = Emission rate of CO in g/HP-hr.

Cd = Measured CO concentration in ppmv.

$1.164 \times 10^{-3}$  = Conversion constant for ppm CO to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

- f. When calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of this specific condition:

$$ER = \frac{C_d \times 1.833 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 3})$$

Where:

ER = Emission rate of VOC in g/HP-hr.

Cd = VOC concentration measured as propane in ppmv.

$1.833 \times 10^{-3}$  = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

- g. If the permittee chooses to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of this section. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of this specific condition.

$$RF_i = \frac{C_{Ai}}{C_{Mi}} \quad (\text{Eq. 4})$$

Where:

RFi = Response factor of compound i when measured with EPA Method 25A.

Cmi = Measured concentration of compound i in ppmv as carbon.

CAi = True concentration of compound i in ppmv as carbon.

$$C_{icorr} = RF_i \times C_{imeas} \quad (\text{Eq. 5})$$

Where:

Cicorr = Concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.

Cimeas = Concentration of compound i measured by EPA Method 320, ppmv as carbon.

$$C_{Peq} = 0.6098 \times C_{icorr} \quad (\text{Eq. 6})$$

Where:

CPeq = Concentration of compound i in mg of propane equivalent per DSCM.

[40 CFR 60.4244 (a)(b)(c)(d)(e)(f)(g); and Rule 62-204.800(8)(b)83, F.A.C.]

- C.12. Common Testing Requirements:** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

*{Permitting Note: Air compliance test notifications can now be completed online in the Department's Business Portal. To access this online process, go to <http://www.fldepportal.com/go/home> and sign in (or*

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection C. EUs 015, 016, 017 and 018 - Low-BTU Fuel Cogeneration Cummins Engine Generators

*register if you're a new user) from the link in the upper right corner of the page. On the Welcome page select the Submit option, then select Registration/Notification, and then click on Air Compliance Test Notifications. Once in the process, just carefully read the instructions on each screen (and under the Help tabs) to complete the notification.}*

#### **Monitoring Requirements**

- C.13. Monitor Hours of Operation:** The permittee shall monitor the hours of operation of the emissions units with an hour meter. Each emissions unit shall be equipped with a timing device to record the actual time of operation. [Permit Nos. 0250520-003-AC; 025052-005-AC; and, 025052-025-AC.]

#### **Record Keeping and Reporting Requirements**

- C.14. AOR Supplemental Information:** Annual operating reports shall include the following supplemental information that was recorded in the previous calendar year:
- a. The highest 12-month total hours of operation of all engines;
  - b. The highest 12-month total NO<sub>x</sub> emission for all engines; and,
  - c. The highest 12-month total CO emission for all engines.
- [Permit Nos. 0250520-013-AC; and, 0250520-019-AC.]
- C.15.** The records on hours of operation and CO and NO<sub>x</sub> emissions shall be prepared no later than 15 days after the end of each month and shall be maintained at the facility's physical location and available for inspection. [Permit No. 0250520-019-AC.]
- C.16.** The permittee shall keep records of all the information as follows in **a. through c.** of this specific condition):
- a. All notifications submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification.
  - b. Maintenance conducted on each engine.
  - c. Documentation that each engine meets the emission standards.
- [40 CFR 60.4245(a)(1), (2), (4); and, Rule 62-204.800(8)(b)83, F.A.C.]
- C.17. Test Reports:** Each test report shall be submitted as follows:
- a. *State Rule Requirement.* The owner or owner's authorized agent of an emissions unit for which an emissions test is required shall submit a written test report to the compliance authority specified by permit, on the results of each such test as soon as practicable but no later than 45 days after the last run of each test is completed. Test reports may be submitted electronically. [Rule 62-297.300(10)(a), F.A.C.]
  - b. *40 CFR 60, Subpart JJJJ.* The permittee shall submit a copy of each performance test that was conducted in accordance of **Specific Condition C.11**, within 60 days after the test has been completed. The State Rule above is more stringent. [40 CFR 60.4245(d); and, Rule 62-204.800(8)(b)83, F.A.C.]
- C.18. Other Reporting Requirements:** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]
- C.19. Test Reports:** The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(10), F.A.C.]

#### **General Provisions**

- C.20. 40 CFR 60 Subpart A, General Provisions.** This engine shall comply with all applicable requirements of 40 CFR 60 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C. This engine shall comply with the applicable portions of Appendix 40 NSPS Subpart A included with this permit, as specified below.

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection C. EUs 015, 016, 017 and 018 - Low-BTU Fuel Cogeneration Cummins Engine Generators

General Provisions Citation	Subject of Citation
§ 60.1	General applicability of the General Provisions
§ 60.2	Definitions (see also § 60.4219)
§ 60.3	Units and abbreviations
§ 60.4	Address
§ 60.5	Determination of construction or modification
§ 60.6	Review of plans
§ 60.7	Notification and Recordkeeping (as specified in § 60.4214(a))
§ 60.8	Performance tests (if required)
§ 60.9	Availability of information
§ 60.10	State Authority
§ 60.12	Circumvention
§ 60.14	Modification
§ 60.15	Reconstruction
§ 60.16	Priority list
§ 60.17	Incorporations by reference
§ 60.19	General notification and reporting requirements

[40 CFR 60.4218]

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection D. EU 019 - Kohler 25 Hp Diesel Engine

The specific conditions in this section apply to the following emissions unit:

EU ID No.	Brief Description
019	Kohler 25 HP Diesel Engine Driven Starting Air Compressor for New Emergency Generators (EU014)

*{Permitting note: This subsection addresses new stationary emergency CI RICE less than 300 HP that are located at an area source of HAP and that have been constructed or reconstructed after 2008. This RICE is not used as a fire pump.}*

*{This emission unit is subject to the requirements of 40 CFR part 60 Subpart IIII standards of performance for stationary compression ignition internal combustion engines (CI), adopted by Rule 62-204.800(8)(b)82, F.A.C. By meeting the requirements for emergency engine, the emission unit does not have to meet the requirements of 40 CFR part 63 subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocation Internal Combustion Engines"; and Rule 62-296.570(4)(b)7, F.A.C.}*

E.U. ID No.	Engine Brake HP/kw	Date of Construction	Initial Startup	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Manufacturer
							Model #
019	25 hp/ 19 kw	4-8-2008	8-6-2012	Ultra-Low Diesel No. 2	Emergency	0.624	Kohler
							KD625-2 (Tier 4)

#### **Essential Potential to Emit (PTE) Parameters**

**D.1.** Allowable Fuel: The Stationary RICE shall use diesel fuel that meets the following requirements for non-road diesel fuel:

a. *Sulfur Content.*

i. The sulfur content shall not exceed = 15 ppm = 0.0015% weight for non-road fuel.

ii. The sulfur content shall not exceed = 500 ppm = 0.05% weight for locomotive and marine fuel.

b. *Cetane and Aromatic.* The fuel must have a minimum cetane index of 40 or must have a maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(b); and, Rule 62-204.800(8)(b)82, F.A.C.; and, 80.510(b).]

**D.2.** Fuel Consumption Limits: Diesel fuel consumption from Emission Units 006, 007, 008, 009, 010, 013, 014 and 019 combined shall not exceed 425,000 gallons of No. 2 diesel fuel oil in any consecutive 365-day period. [Permit Nos. 0250520-016-AV (requested in the renewal application dated April 13, 2009); and, Permit No. 0250520-022-AV.]

**D.3.** Hours of Operation:

a. *Emergency Situations.* There is no time limit on the use of emergency stationary RICE in emergency situations.

b. *Maintenance and Testing.* Each RICE is authorized to operate for the purpose of 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. Maintenance checks and readiness testing of such units is limited to 100 hours per year.

d. *Other Situations.* Each RICE cannot be used for peak shaving, demand response or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[40 CFR 60.4211(f)(1) - (3); and, Rule 62-204.800(8)(b)82, F.A.C.]

#### **Emission Limitations**



### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection D. EU 019 - Kohler 25 Hp Diesel Engine

Unless otherwise specified, the averaging times for **Specific Condition Nos. D.4.-D.7.** are based on the specified averaging time of the applicable test method.

- D.4. NMHC + NO<sub>x</sub> Emissions:** Non-methane hydrocarbons and nitrogen oxide emissions shall not exceed 7.5 g/KW-hr (5.6 g/hp-hr). [40 CFR 60.4205(b); 40 CFR 60.4202(a)(1)(ii), Table 2 of 40 CFR 60 Subpart III; and, Rule 62-204.800(8)(b)82, F.A.C.]
- D.5. Nitrogen Oxide (NO<sub>x</sub>) Limit:** Emissions of NO<sub>x</sub> shall not exceed:
- 4.75 lb/MMBtu. [Rule 62-296.570(4)(b)7, F.A.C.]
  - Exception for Startup, Shutdown, or Malfunction. The emission limits in Rule 62-296.570 shall apply at all times except during periods of startup, shutdown, or malfunction as provided by Rule 62-210.700, F.A.C. Excess emissions resulting from startup, shutdown or malfunction shall only apply to unit-specific emission limits established on or before October 23, 2016, pursuant to Rules 62-212.400 and 62-212.500, F.A.C. [Rule 62-296.570(c), F.A.C.]
- D.6. CO Emissions:** CO emissions shall not exceed 5.5 g/KW-hr (4.1 g/hp-hr). [40 CFR 60.4205(b); 40 CFR 60.4202(a)(1)(ii), 40 CFR 60 Subpart III Table 2; and, Rule 62-204.800(8)(b)82, F.A.C.]
- D.7. PM emissions:** Particulate matter emissions shall not exceed 0.30 g/KW-hr (0.22 g/hp-hr). [40 CFR 60.4205(b) 40 CFR 60.4202(a)(1)(ii); 40 CFR 60 Subpart III Table 2; and, Rule 62-204.800(8)(b)82, F.A.C.]
- D.8. Operate and Maintain.** The permittee shall operate and maintain stationary CI ICE that achieve the emission standards over the entire life of the engine. [40 CFR 60.4206; and, Rule 62-204.800(8)(b)82, F.A.C.]
- D.9. Non-resettable Hour Meter:** If the emergency stationary CI internal combustion engine does not meet the standards applicable to non-emergency engines, the permittee shall install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a); and, Rule 62-204.800(8)(b)82, F.A.C.]
- D.10. Operation and Maintenance:** The permittee must operate and maintain the stationary CI internal combustion engine and any control device according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. In addition, the permittee may only change those settings that are permitted by the manufacturer. The permittee must meet the requirements of 40 CFR Parts 1068, as they apply. [40 CFR 60.4211(a); and, Rule 62-204.800(8)(b)82, F.A.C.]

#### Compliance

- D.11. Manufacturer's Emission-related Specifications:** The permittee shall comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b), for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's emission-related specifications. [40 CFR 60.4211(c); and, Rule 62-204.800(8)(b)82, F.A.C.]
- D.12. Compliance Requirements and Performance Test:** If the permittee does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or the permittee change emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:
- Keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
  - In addition, the Permittee shall 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 you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection D. EU 019 - Kohler 25 Hp Diesel Engine

performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.  
[40 CFR 60.4211(g), (g)(3); and, Rule 62-204.800(8)(b)82, F.A.C.]

#### **Test Methods and Procedures**

- D.13. Common Testing Requirements:** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

*{Permitting Note: Air compliance test notifications can now be completed online in the Department's Business Portal. To access this online process, go to <http://www.fldepportal.com/go/home> and sign in (or register if you're a new user) from the link in the upper right corner of the page. On the Welcome page select the Submit option, then select Registration/Notification, and then click on Air Compliance Test Notifications. Once in the process, just carefully read the instructions on each screen (and under the Help tabs) to complete the notification.}*

- D.14. Test Methods and Other Procedures:** The performance test must be conducted according to the in-use testing procedures in [40 CFR part 1039, subpart E](#), for stationary CI ICE with a displacement of less than 10 liters per cylinder. [40 CFR 60.4212(a); and, Rule 62-204.800(8)(b)82, F.A.C.]

- D.15. Other Reporting Requirements:** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

#### **General Provisions**

- D.16. 40 CFR 60 Subpart A, General Provisions:** This engine shall comply with all applicable requirements of 40 CFR 60 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C. This engine shall comply with the applicable portions of Appendix 40 NSPS Subpart A included with this permit, as specified below.

General Provisions Citation	Subject of Citation
§ 60.1	General applicability of the General Provisions
§ 60.2	Definitions (see also § 60.4219)
§ 60.3	Units and abbreviations
§ 60.4	Address
§ 60.5	Determination of construction or modification
§ 60.6	Review of plans
§ 60.7	Notification and Recordkeeping (as specified in § 60.4214(a))
§ 60.8	Performance tests (if required)
§ 60.9	Availability of information
§ 60.10	State Authority
§ 60.12	Circumvention
§ 60.14	Modification
§ 60.15	Reconstruction
§ 60.16	Priority list
§ 60.17	Incorporations by reference
§ 60.18	General control device requirements
§ 60.19	General notification and reporting requirements

[40 CFR 60.4218; and, Rule 62-204.800(8)(b)82, F.A.C.]

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection E. EU 020 & 021 - Diesel Engine Driven Starting Air Compressors greater than 500 HP

The specific conditions in this section apply to the following emissions unit(s):

EU ID No.	Brief Description					
020	Hatz 37 HP Diesel Engine Driven Starting Air Compressor for Old Generators					
021	Yanmar 37 HP Diesel Engine Driven Starting Air Compressor for Co-generators					
E.U. ID No.	Engine Brake HP	Date of Construction/ Initial Startup	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Manufacturer
						Model #
020	37	<1995	Ultra-Low Diesel No. 2	Non-Emergency*	0.858	Hatz
						2M41Z
021	36	<2006	Ultra-Low Diesel No. 2	Non-Emergency*	0.547	Yanmar
						3TNV88-DSA

\*Engines are considered non-emergency per 40 CFR 63 Subpart since they start generators which are considered non-emergency.

{Permitting Note: This emissions unit, compression ignition (CI) engine, is regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE adopted in Rule 62.204.800(11)(b), F.A.C. These RICE are regulated as existing non-emergency engines less than or equal to 300 HP that are located at an Area source of HAPs that have not been modified or reconstructed after 6/12/2006. If the RICE is modified or reconstructed after 7/11/2005, the NSPS 40 CFR 60, Subpart IIII, will then apply; and Rule 62-296.570(4)(b)7, F.A.C.}

#### **Essential Potential to Emit (PTE) Parameters**

- E.1. Engine Startup.** During periods of startup the permittee must minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for the appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 CFR 63.6625(h); and, Rule 62-204.800(8)(b)81, F.A.C.]

#### **Emission Limitations and Operating Requirements**

- E.2. Work or Management Practice Standards.**
- Oil.* Change oil and filter every 1000 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d1.a.; and, Rule 62-204.800(8)(b)81, F.A.C.]
  - Air Cleaner.* Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d1.b.; and, Rule 62-204.800(8)(b)81, F.A.C.]
  - Hoses and Belts.* Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63.6603(a); Table 2d1.c.; and, Rule 62-204.800(8)(b)81, F.A.C.]
  - Operation and Maintenance.* Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions or develop and follow your own maintenance plan which must provide, to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution, control practice for minimizing emissions. [40 CFR 63.6625(e), (e)(4), 63.6640(a); Table 6.9.a.; and, Rule 62-204.800(8)(b)81, F.A.C.]
  - Oil Analysis.* The permittee has the option of using oil analysis to extend the change requirement. The oil analysis must be performed at the same frequency specified for changing the oil in **Specific Condition No. E.2.a.** The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent of water content. The condemning limits for

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection E. EU 020 & 021 - Diesel Engine Driven Starting Air Compressors greater than 500 HP

these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent of water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine operator is not required to change the oil. If any of the limits are exceeded, the engine operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine operator must change the oil within 2 days or before commencing operation, whichever is later. The permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63.6625(i); and, Rule 62-204.800(8)(b)81, F.A.C.]

- E.3. Nitrogen Oxide (NOx) Emissions:** NOx emissions from each of the emission units 006-010 and 013 shall not exceed 4.75 lbs/MMBtu heat input. [Rule 62-296.570(4)(b)7, F.A.C. (RACT).]
- E.4. Exception for Startup, Shutdown, or Malfunction.** The emission limits in Rule 62-296.570 shall apply at all times except during periods of startup, shutdown, or malfunction as provided by Rule 62-210.700, F.A.C. Excess emissions resulting from startup, shutdown or malfunction shall only apply to unit-specific emission limits established on or before October 23, 2016, pursuant to Rules 62-212.400 and 62-212.500, F.A.C. [Rule 62-296.570(c), F.A.C.]

#### **Compliance**

- E.5. Continuous Compliance.** At all times, these emissions units shall:
- a. Be in compliance with the operating limitations in **Specific Condition No. E.2.**
  - b. Be operated and maintained in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
  - c. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- [40 CFR 63.6605; 40 CFR 63.6640(a), Table 6.9.a.i, ii. to 40 CFR 63, Subpart ZZZZ; and, Rule 62-204.800(11)(b)82, F.A.C.]
- E.6. Report:** The permittee must also report each instance in which the engine did not meet the requirements in Table 8 of 40 CFR 63, Subpart ZZZZ in **Specific Condition No. E.10.**, that apply. [40 CFR 63.6640(e); and, Rule 62-204.800(11)(b)82, F.A.C.]

#### **Recordkeeping Requirements**

- E.7. Recordkeeping:** The permittee shall keep the records described in **a. through f.**, of this specific condition.
- a. A copy of each notification and report that you submitted to comply with 40 CFR 63, Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).
  - b. Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.
  - c. Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
  - d. Records of all required maintenance performed on the air pollution control and monitoring equipment.

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection E. EU 020 & 021 - Diesel Engine Driven Starting Air Compressors greater than 500 HP

- e. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- f. The permittee shall keep the records required in **Specific Condition No. E.5.** to show continuous compliance the operating limitation that applies to these EUs.

[40 CFR 63.6655(a) and (d); and, Rule 62-204.800(11)(b)82, F.A.C.]

**E.8. Maintenance Records.** The permittee shall keep records of the maintenance conducted on these emissions units in order to demonstrate that they are operated and maintained according to their own maintenance plan. [40 CFR 63.6655(e)(3); and, Rule 62-204.800(11)(b)82, F.A.C.]

**E.9. Record Retention.**

- a. The permittee must keep records in a suitable and readily available form for expeditious reviews.
  - b. The permittee must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- [40 CFR 63.6660; Rule 62-204.800(11)(b)82, F.A.C.; and, 40 CFR 63.10(b)(1).]

#### **General Provisions**

**E.10. 40 CFR 63 Subpart A, General Provisions:** This engine shall comply with all applicable requirements of 40 CFR 63 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C., except that the Secretary is not the Administrator for purposes of 40 CFR 63.5(e), 40 CFR 63.5(f), 40 CFR 63.6(g), 40 CFR 63.6(h)(9), 40 CFR 63.6(j), 40 CFR 63.13, and 40 CFR 63.14. This engine shall comply with the applicable portions of Appendix 40 NESHAP Subpart A included with this permit, as specified below.

General Provisions Citation	Subject of Citation
§63.1	General applicability of the General Provisions
§63.2	Definitions
§63.3	Units and abbreviations
§63.4	Prohibited activities and circumvention
§63.5	Construction and reconstruction
§63.6(a)	Applicability
§63.9(i)	Adjustment of submittal deadlines
§63.9(j)	Change in previous information
§63.10(a)	Administrative provisions for recordkeeping/reporting
§63.10(b)(1)	Record retention
§63.10(b)(2)(vi)–(xi)	Records
§63.10(b)(2)(xii)	Record when under waiver
§63.10(b)(2)(xiv)	Records of supporting documentation
§63.10(b)(3)	Records of applicability determination
§63.10(d)(1)	General reporting requirements
§63.10(d)(4)	Progress Reports
§63.10(f)	Waiver for recordkeeping/reporting
§63.12	State authority and delegations
§63.13	Addresses
§63.14	Incorporation by reference
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[40 CFR 63.6665; and, Rule 62-204.800(11)(d)1., F.A.C.]

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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection F. EU 023 - Internal Gasoline Dispensing Facility

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
023	Miami-Dade County Internal Services Department's (ISDs) gasoline dispensing facility unleaded gasoline fuel storage tanks.

*{Permitting Note: These emissions units are regulated under 40 CFR 63, Subpart CCCCCC, NESHAP for National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities.}*

EU023: This unit emits hazardous air pollutants (HAP) from the loading of gasoline storage tanks at gasoline dispensing facilities GDF with a monthly throughput of 10,000 gallons of gasoline or more.

#### **Operating Requirements**

- F.1. Affected Sources:** The affected sources for EU023 are Pressure/Vacuum vents on gasoline storage tanks and the equipment necessary to unload product from cargo tanks into the storage tanks at GDF are covered emission sources. The equipment used for the refueling of motor vehicles is not covered by 40 CFR 63, Subpart CCCCCC. [40 CFR 63.11112.]
- F.2. Compliance Date:** EU023 is an existing affected source that became subject to the control requirements because of an increase in the monthly throughput in January 2019 and must comply with the standards in 40 CFR 63, Subpart CCCCCC no later than 3 years after the affected source became subject to the control requirements (January 2022). [40 CFR 63.11113(c).]
- F.3. General Duties to Minimize Emissions:** At all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.11115(a).]
- F.4. Monthly Throughput of 10,000 Gallons of Gasoline or More:** Facilities with monthly throughput of 10,000 gallons of gasoline or more shall comply with the requirements in 40 CFR 63.11116(a) below.
- a. The Permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
- (1) Minimize gasoline spills;
  - (2) Clean up spills as expeditiously as practicable;
  - (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
  - (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
- [40 CFR 63.11116(a)(1) - (4).]
- F.5. Loading Gasoline into Storage Tanks:** The Permittee shall only load gasoline into storage tanks at the facility by utilizing submerged filling, as defined in 40 CFR 63.11132, and as specified in **(1), (2), or (3)** of this specific condition. The applicable distances in **(1) and (2)** of this specific condition shall be measured from the point in the opening of the submerged fill pipe that is the greatest distance from the bottom of the storage tank.
- (1) Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of the tank.
  - (2) Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the tank.

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- (3) Submerged fill pipes not meeting the specifications of (1) and (2) of this specific condition are allowed if the Permittee can demonstrate that the liquid level in the tank is always above the entire opening of the fill pipe. Documentation providing such demonstration must be made available for inspection by the Administrator's delegated representative during the course of a site visit.
- b. The Permittee shall have records available within 24 hours of a request by the Department to document your gasoline throughput.
- c. The Permittee shall submit the applicable notifications as required under **Specific Condition No. F.6.**
- d. The Permittee shall comply with the requirements of **Specific Condition No. F.5.**, by the applicable dates contained in **Specific Condition No. F.2.**

[40 CFR 63.11117(a), (b), (d), (e) and (f).]

#### **Notifications, Records, and Reports**

- F.6. Notifications:** The Permittee subject to the control requirements in **Specific Condition No. F.5.**, is not required to submit an Initial Notification or a Notification of Compliance Status. [40 CFR 63.11124(a)(3).]

#### **Recordkeeping Requirements**

- F.7. Records:** The Permittee shall keep records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment. Records of actions taken during periods of malfunction to minimize emissions in accordance with **Specific Condition No. F.3.**, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63.11125(d)(1), and (2).]

#### **Reporting Requirements**

- F.8. Reports:** Report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with **Specific Condition No. F.3.**, including actions taken to correct a malfunction. No report is necessary for a calendar year in which no malfunctions occurred. [40 CFR 63.11126(b).]
- F.9. General Provisions:** EU 023 shall comply with all applicable requirements of Table 3 to Subpart CCCCCC of Part 63-Applicability of General Provisions below:

Citation	Subject	Brief description	Applies to subpart CCCCCC
§63.1	Applicability	Initial applicability determination; applicability after standard established; permit requirements; extensions, notifications	Yes, specific requirements given in §63.11111.
§63.1(c)(2)	Title V Permit	Requirements for obtaining a title V permit from the applicable permitting authority	Yes, §63.11111(f) of subpart CCCCCC exempts

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			identified area sources from the obligation to obtain title V operating permits.
§63.2	Definitions	Definitions for part 63 standards	Yes, additional definitions in §63.11132.
§63.3	Units and Abbreviations	Units and abbreviations for part 63 standards	Yes.
§63.4	Prohibited Activities and Circumvention	Prohibited activities; Circumvention, severability	Yes.
§63.5	Construction/Reconstruction	Applicability; applications; approvals	Yes, except that these notifications are not required for facilities subject to §63.11116
§63.6(a)	Compliance with Standards/Operation & Maintenance—Applicability	General Provisions apply unless compliance extension; General Provisions apply to area sources that become major	Yes.
§63.6(b)(1)-(4)	Compliance Dates for New and Reconstructed Sources	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for CAA section 112(f)	Yes.
§63.6(b)(5)	Notification	Must notify if commenced construction or reconstruction after proposal	Yes.
§63.6(b)(6)	[Reserved]		
§63.6(b)(7)	Compliance Dates for New and Reconstructed Area Sources That Become Major	Area sources that become major must comply with major source standards immediately upon becoming major, regardless of whether required to comply when they were an area source	No.
§63.6(c)(1)-(2)	Compliance Dates for Existing Sources	Comply according to date in this subpart, which must be no later than 3 years after effective date; for	No, §63.11113 specifies the



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		CAA section 112(f) standards, comply within 90 days of effective date unless compliance extension	compliance dates.
§63.6(c)(3)-(4)	[Reserved]		
§63.6(c)(5)	Compliance Dates for Existing Area Sources That Become Major	Area sources That become major must comply with major source standards by date indicated in this subpart or by equivalent time period (e.g., 3 years)	No.
§63.6(d)	[Reserved]		
63.6(e)(1)(i)	General duty to minimize emissions	Operate to minimize emissions at all times; information Administrator will use to determine if operation and maintenance requirements were met.	No. <i>See</i> §63.11115 for general duty requirement.
63.6(e)(1)(ii)	Requirement to correct malfunctions ASAP	Owner or operator must correct malfunctions as soon as possible.	No.
§63.6(e)(2)	[Reserved]		
§63.6(e)(3)	Startup, Shutdown, and Malfunction (SSM) Plan	Requirement for SSM plan; content of SSM plan; actions during SSM	No.
§63.6(f)(1)	Compliance Except During SSM	You must comply with emission standards at all times except during SSM	No.
§63.6(f)(2)-(3)	Methods for Determining Compliance	Compliance based on performance test, operation and maintenance plans, records, inspection	Yes.
§63.6(g)(1)-(3)	Alternative Standard	Procedures for getting an alternative standard	Yes.
§63.6(h)(1)	Compliance with Opacity/Visible Emission (VE) Standards	You must comply with opacity/VE standards at all times except during SSM	No.
§63.6(h)(2)(i)	Determining Compliance with Opacity/VE Standards	If standard does not State test method, use EPA Method 9 for opacity in appendix A of part 60 of this chapter and EPA Method 22 for VE in appendix A of part 60 of this chapter	No.
§63.6(h)(2)(ii)	[Reserved]		
§63.6(h)(2)(iii)	Using Previous Tests To Demonstrate Compliance With Opacity/VE Standards	Criteria for when previous opacity/VE testing can be used to show compliance with this subpart	No.
§63.6(h)(3)	[Reserved]		

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§63.6(h)(4)	Notification of Opacity/VE Observation Date	Must notify Administrator of anticipated date of observation	No.
§63.6(h)(5)(i), (iii)-(v)	Conducting Opacity/VE Observations	Dates and schedule for conducting opacity/VE observations	No.
§63.6(h)(5)(ii)	Opacity Test Duration and Averaging Times	Must have at least 3 hours of observation with 30 6-minute averages	No.
§63.6(h)(6)	Records of Conditions During Opacity/VE Observations	Must keep records available and allow Administrator to inspect	No.
§63.6(h)(7)(i)	Report Continuous Opacity Monitoring System (COMS) Monitoring Data From Performance Test	Must submit COMS data with other performance test data	No.
§63.6(h)(7)(ii)	Using COMS Instead of EPA Method 9	Can submit COMS data instead of EPA Method 9 results even if rule requires EPA Method 9 in appendix A of part 60 of this chapter, but must notify Administrator before performance test	No.
§63.6(h)(7)(iii)	Averaging Time for COMS During Performance Test	To determine compliance, must reduce COMS data to 6-minute averages	No.
§63.6(h)(7)(iv)	COMS Requirements	Owner/operator must demonstrate that COMS performance evaluations are conducted according to §63.8(e); COMS are properly maintained and operated according to §63.8(c) and data quality as §63.8(d)	No.
§63.6(h)(7)(v)	Determining Compliance with Opacity/VE Standards	COMS is probable but not conclusive evidence of compliance with opacity standard, even if EPA Method 9 observation shows otherwise. Requirements for COMS to be probable evidence-proper maintenance, meeting Performance Specification 1 in appendix B of part 60 of this chapter, and data have not been altered	No.
§63.6(h)(8)	Determining Compliance with Opacity/VE Standards	Administrator will use all COMS, EPA Method 9 (in appendix A of part 60 of this chapter), and EPA Method 22 (in appendix A of part 60 of this chapter) results, as well as information about operation and maintenance to determine compliance	No.

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§63.6(h)(9)	Adjusted Opacity Standard	Procedures for Administrator to adjust an opacity standard	No.
§63.6(i)(1)-(14)	Compliance Extension	Procedures and criteria for Administrator to grant compliance extension	Yes.
§63.6(j)	Presidential Compliance Exemption	President may exempt any source from requirement to comply with this subpart	Yes.
§63.7(a)(2)	Performance Test Dates	Dates for conducting initial performance testing; must conduct 180 days after compliance date	Yes.
§63.7(a)(3)	CAA Section 114 Authority	Administrator may require a performance test under CAA section 114 at any time	Yes.
§63.7(b)(1)	Notification of Performance Test	Must notify Administrator 60 days before the test	Yes.
§63.7(b)(2)	Notification of Re-scheduling	If have to reschedule performance test, must notify Administrator of rescheduled date as soon as practicable and without delay	Yes.
§63.7(c)	Quality Assurance (QA)/Test Plan	Requirement to submit site-specific test plan 60 days before the test or on date Administrator agrees with; test plan approval procedures; performance audit requirements; internal and external QA procedures for testing	Yes.
§63.7(d)	Testing Facilities	Requirements for testing facilities	Yes.
§63.7(e)(1)	Conditions for Conducting Performance Tests	Performance test must be conducted under representative conditions	No, §63.11120(c) specifies conditions for conducting performance tests.
§63.7(e)(2)	Conditions for Conducting Performance Tests	Must conduct according to this subpart and EPA test methods unless Administrator approves alternative	Yes.
§63.7(e)(3)	Test Run Duration	Must have three test runs of at least 1 hour each; compliance is based on arithmetic mean of three runs;	Yes.

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		conditions when data from an additional test run can be used	
§63.7(f)	Alternative Test Method	Procedures by which Administrator can grant approval to use an intermediate or major change, or alternative to a test method	Yes.
§63.7(g)	Performance Test Data Analysis	Must include raw data in performance test report; must submit performance test data 60 days after end of test with the Notification of Compliance Status; keep data for 5 years	Yes.
§63.7(h)	Waiver of Tests	Procedures for Administrator to waive performance test	Yes.
§63.8(a)(1)	Applicability of Monitoring Requirements	Subject to all monitoring requirements in standard	Yes.
§63.8(a)(2)	Performance Specifications	Performance Specifications in appendix B of 40 CFR part 60 apply	Yes.
§63.8(a)(3)	[Reserved]		
§63.8(a)(4)	Monitoring of Flares	Monitoring requirements for flares in §63.11 apply	Yes.
§63.8(b)(1)	Monitoring	Must conduct monitoring according to standard unless Administrator approves alternative	Yes.
§63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems	Specific requirements for installing monitoring systems; must install on each affected source or after combined with another affected source before it is released to the atmosphere provided the monitoring is sufficient to demonstrate compliance with the standard; if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup	No.
§63.8(c)(1)	Monitoring System Operation and Maintenance	Maintain monitoring system in a manner consistent with good air pollution control practices	No.
§63.8(c)(1)(i)-(iii)	Operation and Maintenance of Continuous Monitoring Systems (CMS)	Must maintain and operate each CMS as specified in §63.6(e)(1); must keep parts for routine repairs	No.

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		readily available; must develop a written SSM plan for CMS, as specified in §63.6(e)(3)	
§63.8(c)(2)-(8)	CMS Requirements	Must install to get representative emission or parameter measurements; must verify operational status before or at performance test	No.
§63.8(d)	CMS Quality Control	Requirements for CMS quality control, including calibration, etc.; must keep quality control plan on record for 5 years; keep old versions for 5 years after revisions	No.
§63.8(e)	CMS Performance Evaluation	Notification, performance evaluation test plan, reports	No.
§63.8(f)(1)-(5)	Alternative Monitoring Method	Procedures for Administrator to approve alternative monitoring	No.
§63.8(f)(6)	Alternative to Relative Accuracy Test	Procedures for Administrator to approve alternative relative accuracy tests for continuous emissions monitoring system (CEMS)	No.
§63.8(g)	Data Reduction	COMS 6-minute averages calculated over at least 36 evenly spaced data points; CEMS 1 hour averages computed over at least 4 equally spaced data points; data that cannot be used in average	No.
§63.9(a)	Notification Requirements	Applicability and State delegation	Yes.
§63.9(b)(1)-(2), (4)-(5)	Initial Notifications	Submit notification within 120 days after effective date; notification of intent to construct/reconstruct, notification of commencement of construction/reconstruction, notification of startup; contents of each	Yes.
§63.9(c)	Request for Compliance Extension	Can request if cannot comply by date or if installed best available control technology or lowest achievable emission rate	Yes.
§63.9(d)	Notification of Special Compliance Requirements for New Sources	For sources that commence construction between proposal and promulgation and want to comply 3 years after effective date	Yes.
§63.9(e)	Notification of Performance Test	Notify Administrator 60 days prior	Yes.
§63.9(f)	Notification of VE/Opacity Test	Notify Administrator 30 days prior	No.
§63.9(g)	Additional Notifications when Using CMS	Notification of performance evaluation; notification about use of COMS data; notification that exceeded criterion for relative accuracy alternative	Yes, however, there are no

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			opacity standards.
§63.9(h)(1)-(6)	Notification of Compliance Status	Contents due 60 days after end of performance test or other compliance demonstration, except for opacity/VE, which are due 30 days after; when to submit to Federal vs. State authority	Yes, however, there are no opacity standards.
§63.9(i)	Adjustment of Submittal Deadlines	Procedures for Administrator to approve change when notifications must be submitted	Yes.
§63.9(j)	Change in Previous Information	Must submit within 15 days after the change	Yes.
§63.10(a)	Recordkeeping/Reporting	Applies to all, unless compliance extension; when to submit to Federal vs. State authority; procedures for owners of more than one source	Yes.
§63.10(b)(1)	Recordkeeping/Reporting	General requirements; keep all records readily available; keep for 5 years	Yes.
§63.10(b)(2)(i)	Records related to SSM	Recordkeeping of occurrence and duration of startups and shutdowns	No.
§63.10(b)(2)(ii)	Records related to SSM	Recordkeeping of malfunctions	No. <i>See</i> §63.11125(d) for recordkeeping of (1) occurrence and duration and (2) actions taken during malfunction.
§63.10(b)(2)(iii)	Maintenance records	Recordkeeping of maintenance on air pollution control and monitoring equipment	Yes.
§63.10(b)(2)(iv)	Records Related to SSM	Actions taken to minimize emissions during SSM	No.
§63.10(b)(2)(v)	Records Related to SSM	Actions taken to minimize emissions during SSM	No.

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§63.10(b)(2)(vi)-(xi)	CMS Records	Malfunctions, inoperative, out-of-control periods	No.
§63.10(b)(2)(xii)	Records	Records when under waiver	Yes.
§63.10(b)(2)(xiii)	Records	Records when using alternative to relative accuracy test	Yes.
§63.10(b)(2)(xiv)	Records	All documentation supporting Initial Notification and Notification of Compliance Status	Yes.
§63.10(b)(3)	Records	Applicability determinations	Yes.
§63.10(c)	Records	Additional records for CMS	No.
§63.10(d)(1)	General Reporting Requirements	Requirement to report	Yes.
§63.10(d)(2)	Report of Performance Test Results	When to submit to Federal or State authority	Yes.
§63.10(d)(3)	Reporting Opacity or VE Observations	What to report and when	No.
§63.10(d)(4)	Progress Reports	Must submit progress reports on schedule if under compliance extension	Yes.
§63.10(d)(5)	SSM Reports	Contents and submission	No. <i>See</i> §63.11126(b) for malfunction reporting requirements.
§63.10(e)(1)-(2)	Additional CMS Reports	Must report results for each CEMS on a unit; written copy of CMS performance evaluation; two-three copies of COMS performance evaluation	No.
§63.10(e)(3)(i)-(iii)	Reports	Schedule for reporting excess emissions	No.
§63.10(e)(3)(iv)-(v)	Excess Emissions Reports	Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations;	No.

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		must submit report containing all of the information in §§63.8(c)(7)-(8) and 63.10(c)(5)-(13)	
§63.10(e)(3)(iv)-(v)	Excess Emissions Reports	Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations; must submit report containing all of the information in §§63.8(c)(7)-(8) and 63.10(c)(5)-(13)	No, §63.11130(K) specifies excess emission events for this subpart.
§63.10(e)(3)(vi)-(viii)	Excess Emissions Report and Summary Report	Requirements for reporting excess emissions for CMS; requires all of the information in §§63.10(c)(5)-(13) and 63.8(c)(7)-(8)	No.
§63.10(e)(4)	Reporting COMS Data	Must submit COMS data with performance test data	No.
§63.10(f)	Waiver for Recordkeeping/Reporting	Procedures for Administrator to waive	Yes.
§63.11(b)	Flares	Requirements for flares	No.
§63.12	Delegation	State authority to enforce standards	Yes.
§63.13	Addresses	Addresses where reports, notifications, and requests are sent	Yes.
§63.14	Incorporations by Reference	Test methods incorporated by reference	Yes.
§63.15	Availability of Information	Public and confidential information	Yes.

[Table 3 to Subpart CCCCCC of Part 63]

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