Miami-Dade Water and Sewer Department
North District Wastewater Treatment Plant

Facility ID No. 0250600
Miami-Dade County

Title V Air Operation Permit Renewal and Revision

Permit No. 0250600-008-AV
(Renewal and Revision of Title V Air Operation Permit No. 0250600-007-AV)

Permitting 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
sed.air@dep.state.fl.us

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DRAFT/PROPOSED PERMIT

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

Permit No. 0250600-008-AV
North District Wastewater Treatment Plant
Facility Id No. 0250600
Title V Air Operation Permit Renewal and Revision

The purpose of this permit is to renew and revise the Title V air operation permit for the above referenced facility. The existing North District Wastewater Treatment Plant is located in Miami-Dade County at 2575 NE 156 Street, North Miami, Florida. UTM Coordinates are: Zone 17, 584.45 km East, 2866.97 km North. Latitude is: 25° 55' 13" North; and, Longitude is: 80° 08' 54" 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. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: DATE, 2014
Renewal Application Due Date: Exp. DATE -225, 2019
Expiration Date: Eff. DATE + 5 years, 2019

(Draft/Proposed)

_____

Jennifer K. Smith Date
Southeast District Assistant Director

JKS/lch/sdt

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

This facility is a Publicly Owned Treatment Works (POTW), and consists of a wastewater treatment plant for commercial and residential sewage. The wastewater processes (emissions unit 001), includes primary clarification, oxygenation tanks, and secondary clarifiers. All liquid process units are covered and vented to an odor control scrubber units for reduction of hydrogen sulfide (H_2S), and odors. The scrubbers do not constitute an air pollution control device; their design is not to reduce VOCs. All sludge generated at the facility is transported via pipeline to the central District Wastewater Treatment Plant for treatment

The maximum process rate of 49,275 million gallons per year is based on a design treatment capacity of 135 million gallons per day on an annual average basis. The facility is currently permitted for 120 million gallons per day on an annual average basis.

Six standby diesel generators supply electricity to the plant in the event of power loss or power curtailment from the Florida Power and Light Co. Five of these emissions units are manufactured by General Motors Electro-Motive Diesel Division; four of them are model 20-645E4B, and the fifth one is a model 16-710G4A. The sixth generator is a Caterpillar unit, model 3612.

Each of the six emergency diesel generators are started using highly compressed starting air pressure generated by electrically driven starting air compressor units, and in the event of an extreme emergency or dead plant black out, one of these electrically driven starting air compressor units can be driven by a small 37 hp diesel engine unit.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
002	Diesel Engine Generator EMD model No. 20-645E4B (Unit # 1)
003	Diesel Engine Generator EMD model No. 20-645E4B (Unit # 2)
004	Diesel Engine Generator EMD model No. 20-645E4B (Unit # 3)
005	Diesel Engine Generator EMD model No. 20-645E4B (Unit # 4)
007	Diesel Engine Generator EMD model No. 16-710G4A (Unit # 6)
008	Diesel Engine Generator CAT model No. 3612 (Unit # 5)
009	Emergency diesel engine driven starting air compressor (Hatz 37 HP Model 2M40LZ)
Unregulated Emissions Units and Activities	
001	Wastewater Liquid Process (Entire Plant)

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal and revision application received February 20, 2014, this facility is NOT a major source of hazardous air pollutants (HAP). Because this facility operates stationary reciprocating internal combustion engines, it is subject to regulation under 40 CFR 63, Subpart ZZZZ, - National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines. The existing facility is NOT a PSD major source of air pollutants in accordance with Rule 62-212.400, F.A.C. The facility is classified as a Major Source of Air Pollution (Title V Source) with regard to potential emissions of

Nitrogen Oxides (NOx) exceeding 100 tons per year. A summary of applicable regulations is shown in the following table.

Regulation	**EU No(s).**
40 CFR 63, Subpart A, NESHAP General Provisions	002, 003, 004, 005, 007, 008, 009
40 CFR 63, Subpart ZZZZ	002, 003, 004, 005, 007, 008, 009
40 CFR 61 Subpart M NESHAP for Asbestos	All
State Rule Citations	
62-4 F.A.C. Permits	All
62-204 F.A.C. Stationary Sources	All
62-210 F.A.C. Stationary Sources	All
62-213 F.A.C. Operation Permits for Major Sources	All
62-296 F.A.C. Stationary Sources – Emissions Standards	All
62-297 F.A.C. Stationary Sources – Emissions Monitoring	All

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. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]

FW5. Unconfined Particulate Matter. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter 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 particulate matter at this facility include:

a. Paving and maintenance of roads, parking areas and yards.
b. Application of water or other dust suppressants to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
c. Application of asphalt, water, or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
e. Landscaping or planting of vegetation.
f. Use of hoods, fans, filters, and similar equipment to contain, capture 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 application received February 20, 2014.]

Annual Reports and Fees

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

FW6. Electronic Annual Operating Report 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 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 1st 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: http://www.dep.state.fl.us/air/emission/tvfee.htm. [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.}

{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. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (3)(b), F.A.C.]

FW8. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.
[Rule 62-213.420(4), F.A.C.]

FW9. 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 to: 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]

{Permitting Note: As a result of switching to Sodium Hypochlorite (19 percent) solution for wastewater effluent disinfection and removing all liquid Chlorine processes and handling, the North District Wastewater Treatment Plant has been delisted an no longer requires Risk Management Plan submissions}

Subsection A. Emissions Units 002, 003, 004, 005, 007 and 008

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

EU No.	Brief Description
002	Diesel Engine Generator EMD Model No. 20-645E4B (Unit # 1)
003	Diesel Engine Generator EMD Model No. 20-645E4B (Unit # 2)
004	Diesel Engine Generator EMD Model No. 20-645E4B (Unit # 3)
005	Diesel Engine Generator EMD Model No. 20-645E4B (Unit # 4)
007	Diesel Engine Generator EMD Model No. 16-710G4A (Unit # 6)
008	Diesel Engine Generator CAT Model No. 3612 (Unit # 5)

{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 Construction	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Manufacturer / Model #
002	3,620	1-1-1979	Ultra Low Diesel No. 2	Non-Emergency*	10.57	EMD / 20-645E4B
003	3,620	1-1-1979	Ultra Low Diesel No. 2	Non-Emergency*	10.57	EMD / 20-645E4B
004	3,620	1-1-1979	Ultra Low Diesel No. 2	Non-Emergency*	10.57	EMD / 20-645E4B
005	3,620	1-1-1979	Ultra Low Diesel No. 2	Non-Emergency*	10.57	EMD / 20-645E4B
007	4,500	1-5-1995	Ultra Low Diesel No. 2	Non-Emergency*	11.6	EMD / 16-710G4A
008		1-6-1997	Ultra Low Diesel No. 2	Non-Emergency*	18.37	Caterpillar / 3612

*Load Sharing Contract with Electric Utility precludes generators from qualifying as an emergency engine per 40 CFR63 Subpart ZZZZ.

All EMD Model 20-645E4 are prime movers manufactured by General Motors Electro Motive Division, each 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 January 1, 1979.

The Model No. 16-710G4A is a prime mover turbocharged diesel fueled reciprocating internal combustion engine manufactured by General Motors Electro Motive Division that operates at 900 rpm and is coupled to a 2,700 kW generator. Commercial operation for this unit began January 5, 1995.

The CAT Model 3612 is a prime mover turbocharged diesel fueled reciprocating internal combustion engine manufactured by Caterpillar that operates at 900 rpm and is coupled to a 3,300 kW generator. This unit began operation January 6, 1997.

The combined power output for all generators is 16 Megawatts. These emissions units are regulated as a group and they shared a fuel limit of 700,000 gallons diesel fuel per year as requested by the permittee to escape PSD.

Essential Potential to Emit (PTE) Parameters

A.1. Methods of Operation - (i.e., Fuels). 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. The consumption of diesel fuel for the above reference emissions units combined shall not exceed 700,000 gallons per year in any consecutive 365-day period.
[Rule 62-213.410, F.A.C., and requested by applicant on the Initial and renewal application to escape PSD applicability based on NOx emission of 229.43 tpy]

A.2. Engine Startup. During periods of startup the owner or operator 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)]

A.3. Hours of Operation.
a. *Normal Operation*. The stationary RICE may operate continuously (8,760 hours a year) if needed. [40 CFR 63.6640(f)(1)]
b. *Engine Startup*. During periods of startup the owner or operator must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for 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)]

A.4. Continuous Compliance. At all times, this unit:
a. Must be in compliance with the operating limitations in this section.
b. Must 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 you 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 Administrator 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]

Control Technology

A.5. Permittee shall install exhaust oxidation catalysts capable of reducing the exhaust CO concentration to 23 ppmvd at 15 percent O2, or by 70 percent or more. Installation shall follow the approved compliance plan found in Appendix CP. [Requested by permittee in Application No. 0250600-008]

A.6. Catalyst Operating Limitations:
a. Facility 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 your 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.

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

Emission Limitations and Standards

A.7. Nitrogen Oxide (NOx) Emissions. NOx emissions from each of the emission units 002-005 and 007-008 shall not exceed 4.75 lbs/MMBtu heat input, and NOx emissions for all generators combined shall not exceed 229.43 ton per year.
[Rule 62-296.570(4)(b)7, F.A.C., and requested in the renewal application dated April 13, 2009]

A.8. CO Emissions. The owner or operator must reduce carbon monoxide (CO) emissions 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_2. [40 CFR 63.6600(d) Table 2d]

Monitoring of Operations

A.9. Fuel Consumption: The owner or operator shall monitor fuel consumption for the above referenced emissions units 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.
[Rule 62-4.070(3), F.A.C., and Permit No. 0250600-003-AC]

A.10. 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.
[Rule 62-4.070(3), F.A.C.]

A.11. 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 method: ASTM Method D 129-91, D 1552-95, D 2622-94, D 4294-98 or comparable Department approved method.

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.
[Rule 62-4.070(3), F.A.C., and requested in the renewal application dated April 13, 2009]

Continuous Monitoring, Operation and Maintenance Requirements

A.12. Continuous Parameter Monitoring System (CPMS): The operator is required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of 40 CFR 63, Subpart ZZZZ, they must install, operate, and maintain each CPMS according to the requirements in 40 CFR 63.6625(b)(1) through (8). [40 CFR 63.6625(b)]

A.13. Work or Management Practice Standards.

a. *Oil*. Change oil and filter every 500 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d4.a.]

b. *Air Cleaner*. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d4.b.]

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 2d4.c.]

d. *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), 63.6640(a) & Table 6.9.a.]

e. *Oil Analysis*. The owner or operator 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 F.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 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 owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or 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 owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must 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)]

Test Methods and Procedures

A.14. 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.15. 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.,]

A.16. Initial Compliance Testing. The owner or operator has demonstrated initial compliance when:

a. *CO Emissions*.
   1. The average reduction of emissions of CO determined from the initial performance test achieves 23 ppmvd or the required CO percent reduction; and,
   2. The owner or operator has installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in 40 CFR 63.6625(b); and,
   3. The owner or operator has recorded the approved operating parameters (if any) during the initial performance test.

   [40 CFR 63.6630 Table 5]

A.17. CO Testing Frequency. The owner or operator must conduct performance tests every 8,760 hours or 3 years, whichever comes first. [40 CFR 63.6615 Table 3]

A.18. Measurements to Determine O_2 and CO.

a. *Measurements to Determine O_2*. The owner or operator must measure the O_2 at the inlet and outlet of the control device using a portable CO and O_2 analyzer according to the ASTM D6522–00 (2005) (incorporated by reference, see 40 CFR 63.14) requirements. Measurements to determine O_2 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).

b. *Measurements to Determine CO*. The owner or operator must measure the CO at the inlet and the outlet of the control device using a portable CO and O_2 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_2, 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]

A.19. Annual Compliance Tests Required. During each federal fiscal year (October 1st to September 30th), each Emission Unit shall be tested to demonstrate compliance with the emissions standards for NOx. 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(7), 62-296.570(4)3, and 62-296.570(4)3, F.A.C.]

Recordkeeping and Reporting Requirements

A.20. Maintenance Records. The owner or operator 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)]

A.21. Record Retention.

a. The owner or operator must keep records in a suitable and readily available form for expeditious reviews.

b. The owner or operator 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 and 40 CFR 63.10(b)(1)]

A.22. 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	A.27.
Notification of Intent to Conduct a Performance Test	60 days prior to performance test	A.25.

[Rule 62-213.440, F.A.C.]

A.23. Other Reporting Requirements: See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

A.24. Notification Requirements. The owner or operator must submit all of the notifications in 40CFR 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 by the dates specified. [40 CFR 63.6645(a)]

A.25. Notification of Intent to Conduct a Performance Test. If the owner or operator is required to conduct a performance test, they 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)]

A.26. Notification of Compliance Status. If the owner or operator 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).

a. For each compliance demonstration required in Table 5 of 40 CFR 63, Subpart ZZZZ that does not include a performance test, the owner or operator must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.
b. 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 owner or operator 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)]

A.27. Semiannual Compliance Report: Facility shall submit a semiannual compliance report according to the requirements in 63.6650 (b) (1)-(5) The Report must contain:

a. If there are no deviations from any emission limitations or operating limitations that apply to the owner or operator, 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
b. If the owner or operator had a deviation from any emission limitation or operating limitation during the reporting period, the information in 40 CFR 63.6650(d). 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); or
c. If the owner or operator had a malfunction during the reporting period, the information in 40 CFR 63.6650(c)(4).
The owner or operator must submit the report semiannually according to the requirements in 40 CFR 63.6650(b).
[40 CFR 63.6650 (except 63.6650(g)) Table 7]

A.28. Facility shall report all deviations as defined in 40 CFR 63, Subpart ZZZZ in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. [Rule 40 CFR 63.6650(f)]

A.29. 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 525,000 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 525,000 gallons of diesel fuel.
[Rule 62-4.070(3), F.A.C., and requested in the renewal application dated April 13, 2009]

A.30. Copies of the fuel supplier certifications shall be maintained at the facility physical location for inspection.
[Rule 62-4.070(3), F.A.C.]

A.31. All records required under this section shall be maintained by the owner or operator of the affected facility for a period of five (5) years following the date of such record, and shall be available for inspection at the facility physical location.
[Rule 62-4.070(3), F.A.C.]

A.32. 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.*

[Rule 62-4.070(3), F.A.C.]

Other Requirements

A.33. Compliance Plan. Based on the application, this/these emissions units were not in compliance with all applicable requirements at the time the application was submitted. Appendix CP, Compliance Plan, is a part of this permit. [Rule 62-213.440(2), F.A.C.]

A.34. 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

General Provisions Citation	Subject of Citation
§63.13	Addresses
§63.14	Incorporation by reference
§63.15	Availability of information

[40 CFR 63.6665]Rule 62-204.800(11)(d)1., F.A.C.; Permit No. 0830007-013-AC, Specific Condition A.13.]

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

EU No.	Brief Description
009	Emergency diesel engine driven starting air compressor (Hatz 37 HP Model 2M40LZ)

E.U. ID No.	Engine Brake HP	Date of Construction	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Manufacturer / Model #
009	37.7	1-1-1979	Ultra Low Diesel No. 2	Non-Emergency*	10.57	EMD / 20-645-E4B

{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. This RICE is for black start engine used only to start a combustion turbine pursuant to 40 CFR 63.6675. This permit section addresses an "existing" stationary CI RICE less than or equal to 500 HP that is located at an Area source of HAPs and that has 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.}

Essential Potential to Emit (PTE) Parameters

B.1. Engine Startup. During periods of startup the owner or operator 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)]

Emission Limitations and Operating Requirements

B.2. Work or Management Practice Standards.

a. *Oil*. Change oil and filter every 500 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d4.a.]

b. *Air Cleaner*. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d4.b.]

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 2d4.c.]

d. *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), 63.6640(a) & Table 6.9.a.]

e. *Oil Analysis*. The owner or operator 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 F**.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 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 owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or 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 owner

or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must 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)]

Compliance

B.3. Continuous Compliance. At all times, this unit:

a. Must be in compliance with the operating limitations in this section.

b. Must 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 you 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 Administrator 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]

Recordkeeping Requirements

B.4. Maintenance Records. The owner or operator 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)]

B.5. Record Retention.

a. The owner or operator must keep records in a suitable and readily available form for expeditious reviews.

b. The owner or operator 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 and 40 CFR 63.10(b)(1)]

General Provisions

B.6. 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

General Provisions Citation	Subject of Citation
§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]Rule 62-204.800(11)(d)1., F.A.C.; Permit No. 0830007-013-AC, Specific Condition A.13.]

SECTION IV. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.
Appendix CP, Compliance Plan.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix NESHAP, Subpart A – General Provisions. (Include for all units that are subject to a NESHAP)
Appendix NESHAP, Subpart ZZZZ
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.
Appendix U, List of Unregulated Emissions Units and/or Activities.

REFERENCED ATTACHMENTS.

The Following Attachments Are Included for Applicant Convenience:

Table H, Permit History.