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PERMITTEE

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

Authorized Representative:
Mr. Vicente Arrebola, P.E.

Air Permit No. 0250520-019-AC
Permit Expires: **Pending**

South District Wastewater Treatment Plant
Air Construction Permit

This is the final air construction permit, which authorizes the removal of two Cooper Superior Model 12GTLA Digester Gas Cogeneration Engines, the installation of four Cummins Model C2000 N6C low Btu fuel and natural gas cogenerations units, the installation of a heat recovery system for thermal energy recovery from engine-generators jacket, improvements to the existing Digester Gas Conditioning system including iron sponge technology for hydrogen sulfide removal, gas cooling technology for moisture removal, and gas pressure booster blowers to increase operating pressure water and exhaust gas, Installation of a landfill gas conditioning system including gas cooling technology for moisture removal, and gas pressure booster blowers to increase operating pressure.

The proposed work will be conducted at the Miami-Dade Water and Sewer Department, South District Wastewater Treatment Plant, which is a publicly owned wastewater treatment plant, (Standard Industrial Classification No. 4952). The facility is located in Miami-Dade County at 8950 SW 232nd Street in Miami, Florida. The UTM coordinates are Zone 17; 565.90 Km. E; 2825.42 Km. N.

This final permit is organized by the following sections.

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Emissions Unit Specific Conditions

Section 4. Appendices

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in West Palm Beach, Florida
Department of Environmental Protection

DRAFT

_____ _____
Jill S. Creech, P.E. Date
Southeast District Director

JC/LH/md

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on _____ to the persons listed below.

Mr. Vicente Arrebola, P.E., MDWASD: arrebv@miamidade.gov
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Mr. Randall C. Shaw, Brown and Caldwell: rshaw@brwncald.com
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Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

_____ _____
(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

This facility is engaged in wastewater treatment activities and is publicly owned. The South District Wastewater Treatment Plant (WWTP) has a design capacity of 112.5 million gallons per day (mgd) annual average daily flow and a peak hourly flow of 225 mgd. Liquid processes at this facility include aerated grit chambers, oxygenation tank, sludge concentration tanks, secondary clarifiers and chlorine contact basins.

The facility operates three digester gas cogeneration engines; four Model 20-645E4B generator sets, each of which consists of a 3,600 hp diesel fueled internal combustion engine that is coupled to a 2,500 kW electrical generator; one Model 16-710G4A generator set which consists of one 3,800 hp diesel fueled internal combustion engine that is coupled to a 2,700 kW electrical generator; and one Model 20-645F4B consists of one 4,000 hp diesel fueled internal combustion engine that is coupled to a 2,865 kW electrical generator

The existing facility consists of the following emissions units.

Facility ID No. 0250520

ID No.	Emission Unit Description
001	Cooper Superior Digester Gas Cogeneration Engine Model 12GTLA
002	Cooper Superior Digester Gas Cogeneration Engine Model 12GTLA (To be removed)
003	Cooper Superior Digester Gas Cogeneration Engine Model 12GTLA (To be removed)
005	Wastewater treatment plant liquid processes
006-009	Four (4) Standby Generator Sets (Model 20-645E4B)
010	One Standby Generator Set (Model 16-710G4A)
012	Six Flares
013	One Standby Generator Set (Model 20-645E4B)
014	Seven (7) Standby Electromotive Diesel Generator Sets

Proposed Project

Four new digester gas cogeneration engines will be added, and two (EUs 002 and 003) of the existing three cogeneration engines that are located on site will be removed as a part of this project. These units produce electricity for in-plant use and waste heat to heat anaerobic digesters. The units are equipped with lean-burn NOx technology to reduce NOx emissions.

This project will add the following emissions units.

Facility ID No. 0250520

ID No.	Emission Unit Description
015	Low BTU Fuel and Natural Gas Cogeneration Cummins Model C2000 N6C
016	Low BTU Fuel and Natural Gas Cogeneration Cummins Model C2000 N6C
017	Low BTU Fuel and Natural Gas Cogeneration Cummins Model C2000 N6C
018	Low BTU Fuel and Natural Gas Cogeneration Cummins Model C2000 N6C

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

1. Permitting Authority: The permitting authority for this project is the Department of Environmental Protection Southeast District Office (Department). The Southeast District mailing address is 400 North Congress Avenue, Suite 200, West Palm Beach, Florida 33401-2913. All documents related to applications for permits to operate an emissions unit shall be submitted to the District Office.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Department of Environmental Protection Southeast District Office. The mailing address and phone number of the District Office is: 400 North Congress Avenue, Suite 200, West Palm Beach, Florida 33401-2913 and Phone Number 561/681-6600.

3. Appendices: The following Appendices are attached as part of this permit:

   a. Appendix A. Citation Formats and Glossary of Common Terms;

   b. Appendix B. General Conditions;

   c. Appendix C. Common Conditions; and

   d. Appendix D. Common Testing Requirements; and

   e. Appendix E. Applicable Parts of NSPS Subpart JJJJ.

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification.
   [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

7. Source Obligation:

   (a) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   [Rule 62-212.400(12), F.A.C.]

8. Application for Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V air operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority.
[Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

9. Actual Emissions Reporting: This permit is based on an analysis that compared baseline actual emissions with projected actual emissions and avoided the requirements of subsection 62-212.400(4) through (12), F.A.C. for several pollutants. Therefore, pursuant to Rule 62-212.300(1)(e), F.A.C., the permittee is subject to the following monitoring, reporting and recordkeeping provisions.

   a. The permittee shall monitor the emissions of any PSD pollutant that the Department identifies could increase as a result of the construction or modification and that is emitted by any emissions unit that could be affected; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 10 years following resumption of regular operations after the change. Emissions shall be computed in accordance with the provisions in Rule 62-210.370, F.A.C., which are provided in Appendix C of this permit.

   b. The permittee shall report to the Department within 60 days after the end of each calendar year during the 10-year period setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:

      1) The name, address and telephone number of the owner or operator of the major stationary source;

      2) The annual emissions as calculated pursuant to the provisions of 62-210.370, F.A.C., which are provided in Appendix C of this permit;

      3) If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and

      4) Any other information that the owner or operator wishes to include in the report.

   c. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1 and 2, F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.

   For this project, the Department requires the annual reporting of actual NOx and CO emissions for the following units: EU 001 and EU 15 - 18.
   [Application No. 0250520-019-AC; and Rules 62-212.300(1)(e) and 62-210.370, F.A.C.]

This section of the permit addresses the following emissions units.

ID No.	Emission Unit Description
001	Cooper Superior Digester Gas Cogeneration Engine Model 12GTLA (No.1)
002	Cooper Superior Digester Gas Cogeneration Engine Model 12GTLA (No.2) (To be removed)
003	Cooper Superior Digester Gas Cogeneration Engine Model 12GTLA (No.3) (To be removed)

EQUIPMENT

A1. The permittee is authorized to remove two of the Cooper Superior Digester Gas Cogeneration Engines (No.2 and No. 3.)
[Application No. 0250520-019-AC]

PERFORMANCE RESTRICTIONS

A2. 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.

A3. Hours of Operation. The combined hours of operation for these emission units shall not exceed 2000 hours in any consecutive 12-month period.
[Rule 62-210.200(PTE), F.A.C.; and Application 0250520-019-AC]

{Permitting note: This facility has been restricted by the amount of fuel consumption for standby generators and hrs. of operation for cogeneration engines to limit the amount of CO emission below 250 tons/year in order to escape PSD.}

A4. Carbon Monoxide (CO) Emissions: Carbon Monoxide (CO) emissions from all cogeneration engines shall not exceed 9.87 tons in any consecutive 12-month period. CO emissions from each engine shall not exceed 6.27 pounds per hour.
[Rule 62-210.200(PTE), Application 0250520-019-AC]

A5. Nitrogen Oxides (NOx) Emissions: Nitrogen dioxide (NOx) emissions from all cogeneration engines (EU 01collectively with EU 15-18) shall not exceed 92.15 tons in any consecutive 12-month period. NOx emissions from each engine shall not exceed 6.27 pounds per hour.
[Rule 62-210.200(PTE), F.A.C.; and Permit 0250520-005-AC]

TESTING REQUIREMENTS

A6. Initial Compliance Tests: The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for CO and NOx. The test shall be conducted using treated digester gas and treated landfill gas from the adjacent South Miami-Dade County Landfill. The initial tests shall be conducted within 60 days after achieving permitted capacity on emissions units 15-18, but not later than 180 days after initial operation of the unit.
[Rules 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

A7. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), the emissions unit shall be tested to demonstrate compliance with the emissions standards for CO and NOx.
[Rule 62-297.310(7)(a)4, F.A.C.]

A8. 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(7)(a)9, F.A.C.]

A9. 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
10	Determination of Carbon Monoxide Emissions from Stationary Sources (Continuous Sampling Train)

The above methods are described in Appendix A of 40 CFR 60 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 and 62-297.100, F.A.C.; and Appendix A of 40 CFR 60]

MONITORING REQUIREMENTS

A10. Hours of Operation: The owner or operator 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.
[Rule 62-4.070(3), F.A.C., Permits 0250520-003-AC and 0250520-005-AC]

RECORDS AND REPORTS

A11. AOR Supplemental Information: Annual operating reports shall include the following supplemental information that was recorded in the previous calendar year:
- The highest 12-month total hours of operation of all engines
- The highest 12-month total NOx emission for all engines
- The highest 12-month total CO emission for all engines

[0250520-013-AC and 0250520-019-AC]

A12. The records on hours of operation and CO and NOx 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.
[Rule 62-4.070(3), F.A.C., and Application 025052-019-AC]

This section of the permit addresses the following emissions units.

ID No.	Emission Unit Description
015	Low-BTU Fuel Cogeneration Cummins Engine Generators, Model C2000 N6C
016	Low-BTU Fuel Cogeneration Cummins Engine Generators, Model C2000 N6C
017	Low-BTU Fuel Cogeneration Cummins Engine Generators, Model C2000 N6C
018	Low-BTU Fuel Cogeneration Cummins Engine Generators, Model C2000 N6C

{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). 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"}

EQUIPMENT

B1. The permittee is authorized to install four 2846 brake horsepower (bhp) Spark Ignition (SI) Reciprocating Internal Compression Engines (RICE), manufactured by Cummins, Model C2000 N6C, each with an electrical output rating of 2000 kW.
[Application No. 0250520-019-AC]

PERFORMANCE RESTRICTIONS

B2. 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.

B3. Hours of Operation. The combined hours of operation for these emission units shall not exceed 22500 hours in any consecutive 12-month period.
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C. Application No. 0250520-019-AC]

EMISSIONS STANDARDS

B4. Emissions Standards:

(a) Nitrogen Oxides (NOx) Emissions: Nitrogen dioxide (NOx) emissions from all cogeneration engines shall not exceed 92.15 tons (EU 15-18 collectively with EU 01) in any consecutive 12-month period. NOx emissions from each engine shall not exceed 6.27 pounds per hour.

(b) Carbon Monoxide (CO) Emissions: Carbon Monoxide (CO) emissions from all cogeneration engines shall not exceed 215 tons in any consecutive 12-month period. CO emissions from each engine shall not exceed 18.54 pounds per hour.

(c) The permittee shall comply with the Volatile Organic Compounds (VOC) emission standards specified in Table 1 of Subpart JJJJ, shown below.

Table 1 **(**Landfill /Digester Gas engines 500≥ hp) built after July 1, 2010

EMISSION STANDARD					
g/HP-hr			ppmvd at 15% O2		
NOX	CO	VOC	NOX	CO	VOC
2.0	5.0	1.0	150	610	80

{Note: The permittee may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O2. When calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.}

{Note: The emission standards for NOX 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.}

[Application No 0250520-019-AC and 40 CFR 60.4233(e)]

B5. The permittee shall operate and maintain the stationary SI ICE that achieves the emission standards as required in Table 1 of subpart JJJJ over the entire life of the engines.
[40 CFR 60.4234]

B6. The permittee shall demonstrate compliance according to the following:

a) Keep a maintenance plan and records of conducted maintenance and to the extent practicable, maintain and operate the engines in a manner consistent with good air pollution control practice for minimizing emissions.

[40 CFR 60.4243(b)(2)(ii)]

TESTING REQUIREMENTS

B7. Initial Compliance Tests: The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for CO, NOx and VOC's. The test shall be conducted using treated digester gas and treated landfill gas from the adjacent South Miami-Dade County Landfill. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit.
[Rules 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

B8. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), the emissions unit shall be tested to demonstrate compliance with the emissions standards for CO, NOx and VOC's.
[Rule 62-297.310(7)(a)4, F.A.C.]

B9. 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(7)(a)9, F.A.C.]

B10. 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

Method	Description of Method and Comments
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 and 62-297.100, F.A.C.; and Appendix A of 40 CFR 60]

B11. The performance tests shall follow the procedures in paragraphs (a) through (g) of this Specific Condition.

(a) Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in §60.8 and under the specific conditions that are specified by Table 2 to subpart JJJJ (Appendix E)

(b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.

(c) You must conduct three separate test runs for each performance test required in this section, as specified in §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.

(d) To determine compliance with the NOX mass per unit output emission limitation, convert the concentration of NOX in the engine exhaust using Equation 1 of this section:

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

Where:

ER = Emission rate of NOX in g/HP-hr.
Cd = Measured NOX concentration in parts per million by volume (ppmv).
1.912×10−3 = Conversion constant for ppm NOX 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).

(e) 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 section:

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

Where:

ER = Emission rate of CO in g/HP-hr.
Cd = Measured CO concentration in ppmv.
1.164×10^{-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 section:

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

Where:

ER = Emission rate of VOC in g/HP-hr.
Cd= VOC concentration measured as propane in ppmv.
1.833×10^{-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 owner/operator 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 section.

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

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.

$$C_{i,cor} = RF_i \times C_{i,meas} \qquad \text{(Eq. 5)}$$

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.

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

Where:

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

[40 CFR 60.4244 (a)(b)(c)(d)(e)(f)(g)]

MONITORING REQUIREMENTS

B12. Hours of Operation: The owner or operator 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.
[Rule 62-4.070(3), F.A.C., 0250520-003-AC and 025052-005-AC]

RECORDS AND REPORTS

B13. AOR Supplemental Information: Annual operating reports shall include the following supplemental information that was recorded in the previous calendar year:

- The highest 12-month total hours of operation of all engines
- The highest 12-month total NOx emission for all engines
- The highest 12-month total CO emission for all engines

[0250520-013-AC and 0250520-019-AC]

B14. The records on hours of operation and CO and NOx 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.

B15. The permittee shall keep records of all the information as follows in paragraph 1) through 4):

1) All notifications submitted to comply with this permit and all documentation supporting any notification.
2) Maintenance conducted on the engine.
3) (not applicable)
4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

[40 CFR 60.4245(a)]

B16. The permittee shall submit an initial notification as required; the notification shall include the information in paragraphs 1) through 5).
1) Name and address of the owner or operator;
2) The address of the affected source;
3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
4) Emission control equipment; and
5) Fuel used.
[40 CFR 60.4245(c)]

B17. The permittee shall submit a copy of each performance test that was conducted in accordance of Specific Condition A.8, within 60 days after the test has been completed.
[40 CFR 60.4245(d)]

B18. The parts of the General Provisions of 40 CFR 60.1 through 60.19 that apply to this facility are listed in Table 3 of subpart JJJJ (Appendix E).
[40 CFR 60.4246]

B19. 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(8), F.A.C.]