Homestead City Utilities
Gordon W. Ivey Power Plant

Facility ID No. 0250013
Miami-Dade County

Title V Air Operation Permit Renewal

Permit No. 0250013-004-AV

(Renewal of Title V Air Operation Permit No. 0250013-003-AV)

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PERMITTEE:
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790 North Homestead Boulevard
Homestead, Florida 33030

Permit No. 0250013-004-AV
Gordon W. Ivey Power Plant
Facility ID No. 0250013
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 Gordon W. Ivey Power Plant is located in Miami-Dade County at 675 North Flagler Avenue, Homestead. UTM Coordinates are: Zone 17, East (km) 552.75, North (km) 2817.52: Latitude is: 25° 28' 31" North and, Longitude is: 80° 28' 12" 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 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawings, plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Effective Date: *Day 55*
Renewal Application Due Date: *Exp. – 225 days*
Expiration Date: *day 55 + 5 years*

Executed in Tallahassee, Florida

(Draft)

for Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

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Subsection A. Facility Description.

Homestead Energy Services (HES) owns and operates the existing Gordon W. Ivey Power Plant, which is an electric utility. The existing facility consists of ten regulated compression ignition (CI) reciprocating internal combustion engines (RICE), one emergency backup diesel engine driven emergency generator and various insignificant fuel oil and miscellaneous storage tanks.

Emissions Units (EUs) 002, 003, 013, 014, 015, 016, 017, 019, 020 and 021 are CI RICE units each connected to an electrical generator to provide electricity to the local power grid for the City of Homestead. These CI RICE units are dual fuel-fired generator engines that are started on 100% ultra low sulfur fuel oil (ULSFO) until the proper operating temperature is achieved, which is usually 5 to 10 minutes. As soon as the proper temperature is reached, the engines are then switched over to a dual fuel firing mode, which under normal operation conditions is a blend of approximately 95 percent (%) natural gas and 5% (ULSFO). Each of these engines were recently equipped with an oxidation catalyst, continuous monitoring systems and a crankcase ventilation system to reduce carbon monoxide (CO) emissions, as required by the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for RICE in 40 CFR 63, Subpart ZZZZ. Subpart ZZZZ was effective on April 1, 2013 with a compliance date of May 3, 2013.

The Gordon W. Ivey Power Plant is comprised of the following emission units (EU) with the following identification (ID) numbers:

Subsection B. Summary of Emissions Units.

EU ID No.	Brief Description
Regulated Emissions Units	
002	2,070 kW Dual Fuel-Fired Generator Engine equipped with a catalytic convertor
003	2,070 kW Dual Fuel-Fired Generator Engine equipped with a catalytic convertor
013	2,070 kW Dual Fuel-Fired Generator Engine equipped with a catalytic convertor
014	2,070 kW Dual Fuel-Fired Generator Engine equipped with a catalytic convertor
015	2,070 kW Dual Fuel-Fired Generator Engine equipped with a catalytic convertor
016	2,070 kW Dual Fuel–Fired Generator Engine equipped with a catalytic convertor
017	2,070 kW Dual Fuel-Fired Generator Engine equipped with a catalytic convertor
019	8,800 kW Dual Fuel-Fired Generator Engine equipped with a catalytic convertor
020	6,485 kW Dual Fuel-Fired Generator Engine equipped with a catalytic convertor
021	6,485 kW Dual Fuel-Fired Generator Engine equipped with a catalytic convertor
024	100 KW Emergency Backup Diesel Engine driven emergency generator

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

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Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received October 4, 2013, this facility is an area source of hazardous air pollutants (HAPs). The existing facility is a prevention of significant deterioration (PSD) major source of air pollutants in accordance with Rule 62-212.400, F.A.C. Because this facility operates non-emergency stationary RICE, it is subject to regulation under 40 CFR 63, Subpart ZZZZ - NESHAP for Stationary RICE. In addition, the diesel fired emergency backup generator must meet the definition of stationary compression ignition internal combustion engines (stationary ICE), and shall comply with applicable provisions of 40 CFR 60, Subpart IIII, including emission testing or certification.

A summary of applicable regulations is shown in the following table:

APPLICABLE REGULATIONS	EU ID Nos.
Federal Rule Citations	
40 CFR 60, Subpart A, New Source Performance Standards (NSPS) General Provisions	024
40 CFR 60, Subpart IIII, NSPS for Reciprocating Internal Combustion Engines (RICE)	
40 CFR 63, Subpart A, Subpart A, NESHAP General Provisions	002, 003, 013, 014, 015, 016, 017, 019, 020, 021
40 CFR 63, Subpart ZZZZ, NESHAP, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)	
State Rule Citations	
Rule 62-4, F.A.C. (Permitting Requirements)	002, 003, 013, 014, 015, 016, 017, 019, 020, 021, 024
Rule 62-204, F.A.C. (Federal Regulations Adopted by Reference)	
Rule 62-210, F.A.C. (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms)	
Rule 62-213, F.A.C. (Title V Air Operation Permits for Major Sources of Air Pollution)	
Rule 62-296, F.A.C. (Emission Limiting Standards)	
Rule 62-297, F.A.C. (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures)	

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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 VI, 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), 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 paving of fuel delivery roads and parking lots. [Rule 62-296.320(4)(c), F.A.C., and, proposed by applicant in Title V air operation permit renewal application received October 4, 2013.]

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 Title V emissions fees 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

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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 (b), F.A.C.]

{Permitting Note: As specified in Specific Condition RR7 of Appendix RR, the applicant shall use DEP Form No. 62-213.900(7) to comply with this requirement.}

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: http://www.epa.gov/osweroe1/content/rmp/index.htm. 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.

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Subsection A. Emissions Units 002, 003, 013, 014, 015, 016, 017, 019, 020 and 021

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

EU ID No.	Brief Description	KW	BHP	MW	MMbtu /hr	Startup Date	Engine Manufacturer
002	Dual Fuel Generator Engine	2,070	2,880	2	23	1970	Fairbanks Morse
003	Dual Fuel Generator Engine	2,070	2,880	2	23	1970	Fairbanks Morse
013	Dual Fuel Generator Engine	2,070	2,880	2	23	1972	Fairbanks Morse
014	Dual Fuel Generator Engine	2,070	2,880	2	23	1972	Fairbanks Morse
015	Dual Fuel Generator Engine	2,070	2,880	2	23	1972	Fairbanks Morse
016	Dual Fuel Generator Engine	2,070	2,880	2	23	1972	Fairbanks Morse
017	Dual Fuel Generator Engine	2,070	2,880	2	23	1972	Fairbanks Morse
019	Dual Fuel Generator Engine	8,800	12,207	9	90	1975	Cooper Bessemer
020	Dual Fuel Generator Engine	6,485	9,000	6	65	1975	Colt Pielstick
021	Dual Fuel Generator Engine	6,485	9,000	6	65	1981	Colt Pielstick

These CI RICE units are dual fuel-fired generator engines that are started on 100% ultra low sulfur fuel oil (ULSFO) until the proper operating temperature is achieved, which is usually 5 to 10 minutes. As soon as the proper temperature is reached, the engines are then switched over to a dual fuel firing mode, which under normal operation conditions is a blend of approximately 95 percent (%) natural gas and 5% (ULSFO). Each of these engines were recently equipped with an oxidation catalyst, continuous monitoring systems and a crankcase ventilation system to reduce carbon monoxide (CO) emissions, as required by the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for RICE in 40 CFR 63, Subpart ZZZZ. Subpart ZZZZ was effective on April 1, 2013 with a compliance date of May 3, 2013.

EUs 002, 003, 013, 014, 015, 016 and 017 are identical units, each consisting of a Fairbanks-Morse engine/generator package unit, Model No. 38TDD8-1/8, with a design heat input of 23 million British thermal units per hour (MMBtu/hour). These units are rated to produce 2,880 brake horsepower (BHP) at 100% load, 2,070 kilowatt (kW) and a nominal rating defined by HES of 2 megawatt (MW), which may vary due to engine performance. The stack height for these units is 51 feet, with an internal diameter of 1.7 feet, and a volumetric flow rate of 28,270 actual cubic feet per minute (acfm) at an exit temperature of 900 degrees Fahrenheit (°F).

EU 019 consists of a Cooper Bessemer engine/generator package unit, Model No. DGSRV-20-4, with a design heat input of 90 MMBtu/hour. This unit is rated to produce 12,207 BHP at 100% load, 8,800 kW and a nominal rating of 9 MW, which may vary due to engine performance. The stack height for this unit is 54 feet, with an internal diameter of 4.65 feet, and a volumetric flow rate of 70,266 acfm at an exit temperature of 895 °F.

EUs 020 and 021 are identical units each consisting of a Colt Pielstick engine/generator package unit, Model No. 18PC2.3, manufactured by Fairbanks-Morse with a design heat input of 65 MMBtu/hour. These units are rated to produce 9,000 BHP at 100% load, 6,485 kW and a nominal rating of 6 MW each, which may vary due to engine performance. The stack height for these units is 48 feet, with an internal diameter of 2.3 feet, and a volumetric flow rate of 62,100 acfm at an exit temperature of 900 °F.

{Permitting Note: These compression ignition (CI) engines are regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE, adopted in Rule 62.204.800(11)(b), F.A.C. This permit section addresses "existing" non- emergency stationary CI RICE greater than 500 HP that are located at an Area Source of HAP and that commenced construction before 6/12/2006. If any of these RICE are modified or reconstructed after 7/11/2005, the NSPS 40 CFR 60, Subpart IIII, will then apply.} Link to 40 CFR 63, Subpart ZZZZ

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The following specific conditions apply to the emissions unit(s) listed above:

A.0. Compliance Plan and Operating Conditions. The permittee has not yet demonstrated initial compliance with the requirements of 40 CFR 63, Subpart ZZZZ for emissions units 003, 014, 015 and 016 and shall comply with the requirements contained in the attached Appendix CP, Compliance Plan for Emissions Units 003, 014, 015 and 016. [Rule 62-213.440(2), F.A.C.]

Essential Potential to Emit (PTE) Parameters

A.1. Methods of Operation. The authorized fuels that are allowed to be burned in these units are:

a. *Dual Fuel Firing Mode*. Under normal operating conditions, these units will co-fire a blend of approximately 95% natural gas and 5% ULSFO.

b. *Fuel Oil*. Units will only fire ULSFO during startup until the proper operating temperature is achieved, which is usually 5 to 10 minutes. As soon as the proper temperature is reached, the engines shall be switched over to a dual fuel firing mode.

1. *Sulfur Content*. The sulfur content of the fuel oil shall not exceed = 15 ppm = 0.0015% by weight.
2. *Cetane and Aromatic*. The fuel oil must have a minimum cetane index of 40 or must have a maximum aromatic content of 35 volume percent.

[Rule 62-213.410, F.A.C.; 40 CFR 80.510(b); and, Applicant's request in Title V permit renewal application received October 4, 2013]

A.2. Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.]

Control Technology

A.3. Oxidation Catalyst. Each of these units is equipped with an oxidation catalyst and a crankcase ventilation system to reduce carbon monoxide (CO) emissions and meet the emissions limits in Specific Condition **A.4.** [40 CFR 63.6603(a) & 6625(g)]

Emission Limitations and Standards

A.4. Carbon Monoxide (CO) Emissions. The owner or operator must reduce carbon monoxide (CO) by:

a. Limiting the concentration of CO in the stationary RICE exhaust to 23 parts per million by volume dry (ppmvd) or less at 15 percent O_2; or

b. Reduce CO emissions by 70% or more.

[40 CFR 63.6603(a) and Table 2d, paragraph 3.]

Excess Emissions

A.5. Excess Emissions Due to Startup. You must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards in Specific Condition **A.4.** apply. [40 CFR 63.6625(h)]

Operating Requirements

A.6. Operating Limitations for the Oxidation Catalyst. You must operate these engine catalysts according to the following requirements:

a. *Pressure Drop*. Maintain your 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 or subsequent performance tests; and

b. *Temperature*. 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 1,350 °F. Note: Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(f) for a different temperature range. Link to 40 CFR 63.8

[40 CFR 63.6603(a), 63.6625(b), Table 2b, paragraph 2 and Table 6, paragraph 10.]

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A.7. Operation and Maintenance. You must operate and maintain these stationary RICE and after-treatment control devices according to the manufacturer's emission-related written instructions or develop 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)]

A.8. Crankcase Ventilation System. You must follow the manufacturer's specified maintenance requirements for operating and maintaining the crankcase ventilation systems and replacing the crankcase filters, or you can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. [40 CFR 63.6625(g)]

Compliance Requirements

A.9. Continuous Compliance. Each unit shall be in compliance with the emission limitations and operating limitations and other requirements in this permit at all times. [40 CFR 63.6605(a)]

A.10. Operation and Maintenance of Equipment. At all times the owner or operator must operate and maintain these engines, 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 compliance authority 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(b)]

A.11. Continuous Compliance - Monitoring and Data. To demonstrate continuous compliance, you must monitor and collect data according to the following requirements:

a. Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, you 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. You 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. You must, however, use all the valid data collected during all other periods.

[40 CFR 63.6635]

A.12. Continuous Compliance with CO Emission Limitations. You (using CPMS) must demonstrate continuous compliance with the emissions and operating limitations by:

a. Conducting performance tests for CO every 8,760 hours or 3 years, whichever comes first, to demonstrate that the required CO percent reduction is achieved or that your emissions remain at or below the CO concentration limit; and
b. Collecting the catalyst inlet temperature data according to Specific Condition **A.13.**;and
c. Reducing these data to 4-hour rolling averages; and
d. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
e. Measuring 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 (most recent) performance test.

[40 CFR 63.6640(a) and Table 6, paragraph 10.]

Monitoring of Operations

A.13. Continuous Parameter Monitoring System (CPMS). You are required to maintain and operate a CPMS to continuously monitor catalyst inlet temperature according to the requirements in paragraphs **a.** through **f.**

a. You must prepare and maintain a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (1)

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through (5), below, and in 40 CFR 63.8(d). As specified in 40 CFR 63.8(f)(4), you may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs (1) through (5), below, in your site-specific monitoring plan. Link to 40 CFR 63.8

(1) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;
(2) Sampling interface (*e.g.*, thermocouple) location such that the monitoring system will provide representative measurements;
(3) Equipment performance evaluations, system accuracy audits, or other audit procedures;
(4) Ongoing operation and maintenance procedures in accordance with provisions in 40 CFR 63.8(c)(1)(ii) and (c)(3); and Link to 40 CFR 63.8
(5) Ongoing reporting and recordkeeping procedures in accordance with provisions in 40 CFR 63.10(c), (e)(1), and (e)(2)(i). Link to 40 CFR 63.10

b. You must 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 Specific Condition **A.11.**).
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. You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.
f. You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

[40 CFR 63.6625(b) and Table 5]

Test Methods and Procedures for CO

A.14. Compliance Tests for CO. Compliance tests shall be performed on each engine to demonstrate compliance with the emissions limits in Specific Condition **A.4.** every 8,760 hours of operation or 3 years, whichever comes first, according to the requirements in specific Conditions **A.15.** and **A.16.** [40 CFR 63.6612 & Table 3, paragraph 4.]

A.15. Methods and 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 Method 3 or 3A or 3B of 40 CFR 60, Appendix A, or ASTM Method D6522–00 (Reapproved 2005) (incorporated by reference, see 40 CFR 63.14). Measurements to determine O_2 concentration must be made at the same time and location as the measurements for CO concentration.
b. *Measurements to Determine CO.* The owner or operator must measure the CO at the inlet and the outlet of the control device using ASTM Method D6522–00 (Reapproved 2005) (incorporated by reference, see 40 CFR 63.14) or Method 10 of 40 CFR 60, Appendix A. The CO concentration must be at 15 percent O_2, dry basis. Method 320 of 40 CFR part 63, Appendix A, or ASTM D6348–03, may also be used.

[40 CFR 63.6620(a) and Table 4, paragraph 1.]

A.16. CO Performance Test Requirements. The performance tests shall be conducted according to methods and requirements below:

a. If an engine is non-operational at the prescribed testing time, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again. [40 CFR 63.6620(b)]
b. You must conduct three separate test runs for each performance test. Each test run must last at least 1 hour. [40 CFR 63.7(e)(3) & 63.6620(d)] Link to 40 CFR 63.7
c. You must use the Equation 1 to determine compliance with the percent reduction requirement:

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

Where:

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C_i = concentration of carbon monoxide (CO) at the control device inlet,
C_o = concentration of CO at the control device outlet, and
R = percent reduction of CO emissions.

d. You must normalize the CO 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_2). If pollutant concentrations are to be corrected to 15 percent oxygen and CO_2 concentration is measured in lieu of oxygen concentration measurement, a CO_2 correction factor is needed. Calculate the CO_2 correction factor as described in paragraphs (1) through (3), below:

(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:

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

Where:
F_o = Fuel factor based on the ratio of oxygen volume to the ultimate CO_2 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^3 /J (dscf/10^6 Btu).
F_c = Ratio of the volume of CO_2 produced to the gross calorific value of the fuel from Method 19, dsm^3 /J (dscf/10^6 Btu)

(2) Calculate the CO_2 correction factor for correcting measurement data to 15 percent O_2 , as follows:

$$X_{CO2} = \frac{5.9}{F_o} \quad (Eq.\ 3)$$

Where:
X_{CO2} = CO_2 correction factor, percent.
5.9 = 20.9 percent O_2 —15 percent O_2 , the defined O_2 correction value, percent.

(3) Calculate the CO, THC, and formaldehyde gas concentrations adjusted to 15 percent O_2 using CO_2 as follows:

$$C_{adj} = C_d \frac{X_{CO2}}{\%CO_2} \quad (Eq.\ 4)$$

Where:
C_{adj} = Calculated concentration of CO, THC, or formaldehyde adjusted to 15 percent O_2.
C_d = Measured concentration of CO, THC, or formaldehyde, uncorrected.
X_{CO2} = CO_2 correction factor, percent.
% CO_2 = Measured CO_2 concentration measured, dry basis, percent.

e. 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 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 63.7(e)(3) and 40 CFR 63.6620(b), (d), (e) & (i)]

<u>Recordkeeping Requirements</u>

A.17. <u>Performance, Maintenance and Compliance Records</u>. The applicant must keep the following records:

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a. A copy of each notification and report that you submitted to comply with Subpart ZZZZ, 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). Link to 40 CFR 63.10
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). Link to 40 CFR 63.10
d. Records of all required maintenance performed on the air pollution control and monitoring equipment.
e. Records of actions taken during periods of malfunction to minimize emissions in accordance with Specific Condition **A.10.**, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
f. Records described in 40 CFR 63.10(b)(2)(vi) through (xi). Link to 40 CFR 63.10
g. Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in 40 CFR 63.8(d)(3). Link to 40 CFR 63.8
h. Requests for alternatives to the relative accuracy test for CPMS as required in 40 CFR 63.8(f)(6)(i), if applicable. Link to 40 CFR 63.8
i. The records required to show continuous compliance with each emission limitation or operating requirement specified in this permit.

[40 CFR 63.10(b)(2) & 63.6655(a), (b), (d) and Table 6]

A.18. 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.
c. All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained at the facility for at least five years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request.

[Rules 62-4.160(14) & 62-213.440(1)(b)2., F.A.C.; and, 40 CFR 63.6660 & 63.10(b)(1)]

Reporting Requirements

A.19. Notification Requirements. You must submit all of the notifications in 40CFR 63.7(b) & (c), 63.8(e), 63.9(b), (e) & (g) by the dates specified. Link to 40 CFR 63, Subpart A [40 CFR 63.6645(a)]

A.20. Notification of Intent to Conduct a Performance Test. You must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin to the compliance office listed on the cover page of this permit. [40 CFR 63.7(b)(1) & 63.6645(g)]

A.21. Notification of Compliance Status. You must submit a 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 to the compliance office listed on the cover page of this permit. [40 CFR 63.10(d)(2) and 63.6645(h)]

A.22. Compliance Reports. The applicant must submit semiannual Compliance Reports according to the following requirements:
a. Each semiannual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31 and 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.
b. The Compliance report must contain the following information:
(1) Company name and address.

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(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
(3) Date of report and beginning and ending dates of the reporting period.
(4) If you 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.10.**, including actions taken to correct a malfunction.
(5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.
(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period. Link to 40 CFR 63.8

c. For each deviation from an emission or operating limitation, you must include information in paragraphs b.(1) through (4), above, and c.(1) through (12), below:
(1) The date and time that each malfunction started and stopped.
(2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.
(3) The date, time, and duration that each CMS was out-of-control, including the information in 63.8(c)(8). Link to 40 CFR 63.8
(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
(5) 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.
(6) 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.
(7) 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.
(8) An identification of each parameter and pollutant (CO) that was monitored at the stationary RICE.
(9) A brief description of the stationary RICE.
(10) A brief description of the CMS.
(11) The date of the latest CMS certification or audit.
(12) A description of any changes in CMS, processes, or controls since the last reporting period.

d. If you submit a compliance report pursuant to this specific condition along with, or as part of, the semiannual monitoring report required in Appendix RR, and the compliance report includes all required information concerning deviations from any emission or operating limitation, 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.

[40 CFR 63.6650(a) - (f) and Table 7, paragraph 3.]

General Provisions, 40 CFR 63, Subpart ZZZZ

A.23. Applicability of General Provisions to Subpart ZZZZ. These engines shall comply with the following 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. Link to 40 CFR 63, Subpart A - General Provisions.

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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
63.6(b)(1)-(4)	Compliance dates for new and reconstructed sources
63.6(b)(5)	Notification
63.6(c)(1)-(2)	Compliance dates for existing sources
63.6(f)(2)	Methods for determining compliance
63.6(f)(3)	Finding of compliance
63.6(i)	Compliance extension procedures and criteria
63.7(a)(1)-(2)	Performance test dates
63.7(a)(3)	CAA section 114 authority
63.7(b)(1)	Notification of performance test
63.7(b)(2)	Notification of rescheduling
63.7(c)	Quality assurance/test plan
63.7(d)	Testing facilities
63.7(e)(2)	Conduct of performance tests and reduction of data
63.7(e)(3)	Test run duration
63.7(e)(4)	Administrator may require other testing under section 114 of the CAA
63.7(f)	Alternative test method provisions
63.7(g)	Performance test data analysis, recordkeeping, and reporting
63.8(a)(1)	Applicability of monitoring requirements
63.8(a)(2)	Performance specifications
63.8(b)(1)	Monitoring
63.8(c)(1)	Monitoring system operation and maintenance
63.8(c)(1)(ii)	SSM not in Startup Shutdown Malfunction Plan
63.8(c)(2)-(3)	Monitoring system installation
63.8(c)(4)	Continuous monitoring system (CMS) requirements
63.8(c)(6)-(8)	CMS requirements
63.8(d)	CMS quality control
63.8(e)	CMS performance evaluation (as specified in 63.6645)
63.8(g)	Data reduction
63.9(a)	Applicability and State delegation of notification requirements
63.9(b)(1)-(5)	Initial notifications (as specified in 63.6645)
63.9(d)	Notification of special compliance requirements for new sources
63.9(e)	Notification of performance test
63.9(g)(1)	Notification of performance evaluation
63.9(h)(1)-(6)	Notification of compliance status
63.9(j)	Change in previous information
63.10(a)	Administrative provisions for recordkeeping/reporting

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General Provisions Citation	Subject of Citation
63.10(b)(1)	Record retention
63.10(b)(2)(vi)-(xi)	Records
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)(2)	Report of performance test results
63.10(d)(4)	Progress reports
63.10(e)(1) and (2)(i)	Additional CMS Reports
63.10(e)(3)	Excess emission and parameter exceedences reports
63.10(f)	Waiver for recordkeeping/reporting
63.12	State authority and delegations
63.14	Incorporation by reference
63.15	Availability of information

[40 CFR 63.6665 & Table 8 to Subpart ZZZZ of Part 63]

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

EU No.	Brief Description
024	Emergency Backup Diesel Engine - driven emergency generator

This emissions unit is a stationary compression ignition (CI) reciprocating internal combustion engine (RICE) that has a maximum engine rating of 158 BHP at 100% load. The electrical generator has a nominal power rating of 100 kW.

The following table provides important details for the engine collectively regulated as EU 024:

Engine Identification	Engine Brake HP	Date of Construction	Model Year	Displacement liters/cylinder	Engine Manufactory	Model No.
Emergency Diesel Engine	158 (100 kW)	2012	2011	4.5	John Deere	4045HF285

{Permitting Note: This CI RICE is regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE and 40 CFR 60, Subpart IIII, NSPS for Stationary CI RICE, adopted in Rules 62.204.800(11)(b) and (8)(b), F.A.C., respectively. This permit section addresses a "new" stationary CI RICE less than 500 bhp, with a displacement less than 10 liters/cylinder, that is located at an area source of HAP, that has been manufactured after 4/1/2006 and that has a 2007 model year or later. In accordance with the provisions of 40 CFR 63.6590(c)(6), meeting the requirements of 40 CFR 60, Subpart IIII, satisfies compliance with the requirements of Subpart ZZZZ of 40 CFR 63.}

Essential Potential to Emit (PTE) Parameters

B.1. Authorized Fuel. This Stationary RICE must use diesel fuel that meets the following requirements for non-road diesel fuel:

a. *Sulfur Content*. The sulfur content shall not exceed = 15 ppm = 0.0015% by weight (ultra low sulfur).
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.
c. *Use of Existing Fuel*. Any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

[40 CFR 60.4207(b), 80.510(b)]

B.2. Restricted Hours of Operation.

a. *Emergency Situations*. There is no time limit on the use of emergency stationary RICE in emergency situations.
b. *Other Situations*. You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs b.(1) through (3) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph c. counts as part of the 100 hours per calendar year allowed by this paragraph.
   (1) Maintenance and Testing. This engine 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. 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 RICE beyond 100 hours per year. [40 CFR 60.4211(f)(2)(i)]

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(2) Emergency Demand Response. This engine may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3. [40 CFR 60.4211(f)(2)(ii)]

(3) Voltage or Frequency Deviations. This engine may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. [40 CFR 60.4211(f)(2)(iii)]

c. *Non-emergency Situations*. This engine 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 paragraph b., above. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency 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)(3)]

[40 CFR 60.4211(f)]

B.3. Operation and Maintenance. The owner or operator must operate and maintain the stationary CI RICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. This RICE must be maintained and operated to meet the emissions limits in Specific Conditions **B.4. - B.6.** over the entire life of the engine. [40 CFR 60.4206, 4211(a)(1), (2) & (3)]

Emissions Standards

B.4. NO_X + NMHC Emissions. Emissions of NO_X plus non-methane hydrocarbons (NMHC) shall not exceed 4.0 grams per kilowatt-hour (g/kW-hr). [40 CFR 60.4205(b) & 89.112 (Table 1)]

B.5. CO Emissions. CO emissions shall not exceed 5.0 g/kW-hr. [40 CFR 60.4205(b) & 89.112 (Table 1)]

B.6. PM Emissions. PM emissions shall not exceed 0.3 g/kW-hr. [40 CFR 60.4205(b) & 89.112 (Table 1)]

Testing and Compliance Requirements

B.7. Engine Certification Requirements. The owner or operator must comply with the emissions standards specified above by having purchased an engine certified by the manufacturer to meet those limits. The engine must have been installed and configured according to the manufacturer's emission-related specifications, except as permitted in Specific Condition **B.8.** [40 CFR 60.4211(c)]

B.8. Compliance Requirements Due to Loss of Certification. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must 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, you must 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. [40 CFR 60.4211(g)(2)]

B.9. Testing Requirements. In the event performance tests are required pursuant to Specific Condition **B.8.**, the following requirements shall be met:

a. *Testing Procedures*. The performance test must be conducted according to the in-use testing procedures in 40 CFR Part 1039, Subpart F. Link to Subpart F

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b. *NTE Standards*. Exhaust emissions from these engines must not exceed the not-to-exceed (NTE) numerical requirements, rounded to the same number of decimal places as the applicable standard (STD) in Specific Conditions **B.4. - B.6.**, determined from the following equation:

NTE Requirement for Each Pollutant = (1.25) x (STD) (Eq. 1)

[Rule 62-204.800(8)(b)80, F.A.C.; and, 40 CFR 60.4212(a) and (c)]

B.10. Common Testing Requirements. Unless otherwise specified and if required, 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.]

Monitoring Requirements

B.11. Hour Meter. The owner or operator must install a non-resettable hour meter if one is not already installed. [40 CFR 60.4209(a)]

Records and Reports

B.12. Hours of Operation Records. The owner or operator must keep records of the operation of the engine in emergency and non-emergency services that are recorded through the non-resettable hour meter. The owner or operator must record the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR 60.4214(b)]

B.13. Maintenance Records. To demonstrate conformance with the manufacturer's written instructions for maintaining the certified engine and to document when compliance testing must be performed pursuant to Specific Condition **B.7.**, the owner or operator must keep the following records:

a. Engine manufacturer documentation and certification indicating compliance with the standards.
b. A copy of the manufacturer's written instructions for operation and maintenance of the certified engine.
c. A written maintenance log detailing the date and type of maintenance performed on the engine, as well as any deviations from the manufacturer's written instructions.

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

B.14. Testing Notification. At such time that the requirements of Specific Condition **B.8.** become applicable, the owner or operator shall notify the compliance authority of the date by which the initial compliance test must be performed. [Rule 62-213.440(1)]

B.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

B.16. 40 CFR 60 Subpart A, General Provisions. The owner or operator shall comply with the following 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. (see Appendix NSPS, Subpart A – General Provisions): Link to 40 CFR 60, Subpart A - General Provisions.

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

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General Provisions Citation	Subject of Citation
§ 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 and Table 8 to 40 CFR 60, Subpart IIII]

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SECTION VI. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.
Appendix CP, Compliance Plan for Emissions Units 003, 014, 015 and 016.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.

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