PERMITTEE

South Florida Water Management District
3301 Gun Club Road, Department 5500
West Palm Beach, Florida 33406

Authorized Representative:
Mr. John Mitnik, Chief District Engineer

DRAFT Air Permit No. 0112410-011-AC
Permit Expires:
Air Construction Permit Modification
Broward County, Florida

PROJECT

This project authorizes the following changes:

1) Classification of three emergency generators as "institutional emergency reciprocating internal combustion engines (RICE) pursuant to 40 CFR 63.6585(f) (3), Subpart ZZZZ Code of Federal Regulations,
2) Lowering of the federally enforceable facility-wide restriction of annual fuel consumption from 1,111,565 gallons to 1,024,931 gallons,
3) Conducting compliance tests at the highest capacity as practicable at the time of the scheduled test and omitting additional testing if operating capacity exceeds 110% of capacity during compliance testing (Rule 62-297.310(3), F.A.C.). This request is granted since the permittee does not have the ability to control the load capacity on engines during testing or pumping operations. The load capacity is controlled by the difference between the head water and tail water elevations and are set by environmental conditions and not the permittee.

The facility is located in Broward County at 21939 Griffin Road, at the west end of the South New River Canal C-11. Pump stations S- and S-9A are collocated on the same property at the eastern edge of the Water Conservation Area 3-A, approximately ¼ mile west of US-27 in Broward County, Florida. The Latitude and Longitude are 26° 03' 42" North and 80° 26' 36" West, respectively. The facility's Standard Industrial Classification (SIC) code is 9511 and the North American Standard Classification System number is 924110. The final permit is organized into 5 sections: Section 1 (Facility Information); Section 2 (Administrative Requirements); Section 3 (Facility -Wide Conditions); Section 4 (Emissions Unit Specific Conditions); and Section 5 (Appendices). The acronyms and abbreviations are defined in Appendix A of Section 5.

P**ermitting Authority:** Applications for air operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4 and 62-210 of the Florida Administrative Code (F.A.C.). The Permitting Authority responsible for making a permit determination for this project is the Environmental Engineering and Permitting Division (EEPD) located at: 1 North University Drive, Mailbox 201, Plantation, Florida 33324. EEPD's telephone number is 954-519-1483.

Petitions: A person whose substantial interests are affected by the proposed decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of the Broward County Attorney at 115 S. Andrews Avenue, Room: 423, Fort Lauderdale, Florida 33301-1872 (Telephone: 954-357-7600, Fax: 954-357-7641). Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this notice. Petitions filed by any other person must be filed within 14 days of receipt of this proposed action. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if

known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when each petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and, (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the permitting authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

Effective Date: This permitting decision is final and effective on the date filed with the clerk of the Permitting Authority unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition pursuant to Rule 62-110.106, F.A.C., and the petition conforms to the content requirements of Rules 28-106.201 and 28-106.301, F.A.C. Upon timely filing of a petition or a request for extension of time, this action will not be effective until further order of the Permitting Authority.

Judicial Review: Any party to this permitting decision (order) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Office of the Broward County Attorney at 115 S. Andrews Avenue, Room: 423, Fort Lauderdale, Florida 33301-1872 (Telephone: 954/357-7600, Fax: 954/357-7641, 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 Plantation, Florida

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Robert C. Wong
Environmental Program Supervisor
Environmental Engineering and Permitting Division

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Air Permit package 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 the date indicated below to the following persons.

Mr. Jeffrey A. Smith, SFWMD, jesmith@sfwmd.gov
Mr. John Mitnik, SFWMD, jmitnik@sfwmd.gov
Mr. Richard Powell, ECT, Inc., dpowell@ectinc.com
Ms. Barbara Friday, DEP OPC, Barbara.Friday@dep.state.fl.us *(for posting with EPA)*
Ms. Lynn Scearce, DEP OPC, Lynn.Scearce@dep.state.fl.us *(for posting with EPA*
Ms. Diane Pupa, Permitting Program Administrator, Florida Department of Environmental Protection/Southeast District, diane.pupa@dep.state.fl.us

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.

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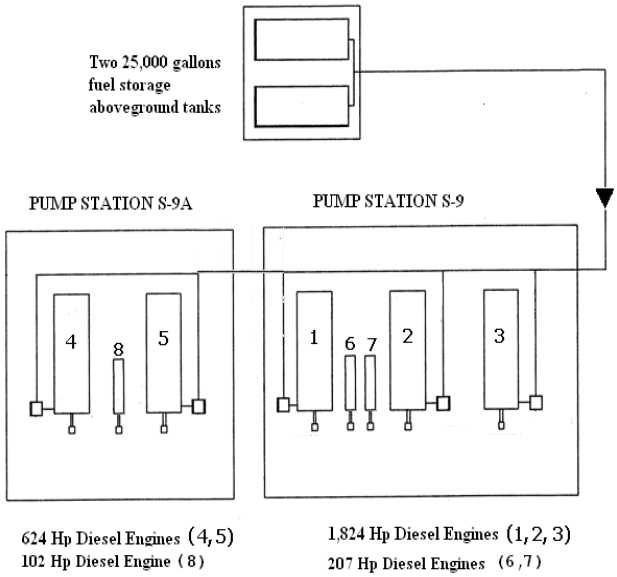
Clerk Date

FACILITY DESCRIPTION

SFWMD operates diesel engines for water pumping and emergency generators at Pump Stations Nos. S-9 and S-9A in accordance with Title V air operation permit No.0112410-009-AV issued 10/22/2013. Pump Stations S-9 and S-9A are collocated on the same property in Broward County. Florida. The pump stations discharge water into Water Conservation Area 3-A for storage and use during dry times. Pump Station S-9A consists of three (3) 1,824 bhp diesel engines/pump combinations and one (1) spare 624 hp diesel. Two (2) 207 hp emergency generators and one (1) 102 hp emergency generator. Pump station S-9|A is generally used when water needs to be pumped under non-flood conditions. Pump Station S-9 is designed to move water for flood control purposes, or when there is need to lower the C-11 Canal in a timely manner, and operates Engines 1, 2, and 3 (see figure below) to drive three water pumps. Pump Station S-9A operates Engines 4 and 5 to drive two water pumps. Engines 6, 7, and 8 operate three emergency generators. Both stations share the two 25,000 gallon distillate oil aboveground storage tanks (ASTs)that are considered unregulated and insignificant emission units and/or activities, as well as miscellaneous surface coating activities. The facility has an existing federally enforceable facility-wide restriction on annual fuel consumption (No.2 distillate) that will limit the potential NOx emissions below the major source threshold for PSD applicability (250 TPY). The figure below represents the flow diagram for the facility.



The existing facility consists of the following emissions units (EU).

E.U. ID	Engine No.	Pump Station	Serial No.	Site-Rated Horsepower	Manufacturer/ Function	Liters/Cylinder
004	1	S-9	8RB00325	1,824	Caterpillar Model No. 3606	18.5
005	2	S-9	8RB00330	1,824	Caterpillar Model No. 3606	18.5
006	3	S-9	8RB00348	1,824	Caterpillar Model No. 3606	18.5
007	4	S-9A	38S23502	624	Caterpillar Model No. 3412	2.3
008	5	S-9A	38S20601	624	Caterpillar Model No. 3412	2.3
009	6	S-9	45568800	207	Cummins	1.4
010	7	S-9	45568816	207	Cummins	1.4
011	8	S-9A	46123231	102	Cummins	0.9
012	9	S-9A	38S20809	624	Caterpillar Model No. 3412	2.3

(Note. Engine S/N 38S23502 was purchased before July 11, 2005 (NSPS cutoff date) and replaced similar existing S/N 38S20809 in March 2009.)

NOx, CO, PM, SOx, and other products of combustion are generated during the operation of the diesel-fired engines and insignificant activities.

A summary of applicable federal, state and local regulations is shown in the table below.

Summary of Primary Applicable Regulations	EU No(s)
Federal Rule Citations	
NESHAP - 40 CFR 63, Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines adopted and incorporated by reference in Rule 62-204.800(11) (b) 82 F.A.C.	001, 002, 003, 004, 005,006, 007, 008, 009, 010, 011,012
State Rule Citations	
Rule 62-213, F.A.C. Title V major source of VOC	Facility - Wide
Rule 62-296.320(1) (a) F.A.C. VOC or Organic Solvent Emissions	Facility - Wide
Rule 62-296.320(2) F.A.C. - Objectionable Odor	Facility - Wide
Rule 62-210-650 F.A.C. Circumvention of air pollution control equipment	Facility - Wide
County Rule Citations	
Broward County Chapter 27 Air Pollution Control, Article IV, Sec. 27-175(b) & (d) **	Facility-Wide

****** Not Federally Enforceable

FACILITY REGULATORY CLASSIFICATION

- *Title III:* The facility is a natural minor source of Hazardous Air Pollutants (HAP).
- *Title V*: The facility is a Title V major source of NOx in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).
- *PSD:* The facility is a Prevention of Significant Deterioration (PSD) synthetic minor source of Nitrogen Oxides in accordance with Rule 62-212.400, F.A.C.
- Compliance Assurance Monitoring (CAM) does not apply to any emissions unit.
- *NESHAP*: The facility operates stationary compression ignition reciprocating internal combustion engine (CI RICE) located in an area (i.e. non-major) source of HAP subject to 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants (NESHAP)

Regulation	EU No(s).
40 CFR 63, Subpart A, NESHAP General Provisions	004 thru 012
40 CFR 63 NESHAP Subpart ZZZZ	004 thru 012

- The facility does not operate units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.
- *CAIR*: The facility is not subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

1. Permitting Authority: The permitting authority for this project is the Broward County Environmental Engineering and Permitting Division (EEPD). EEPD's mailing address is 1 North University Drive, Mailbox 201, Plantation, Florida 33324 and main phone number is 954-519-1483. Email correspondence may be sent to: airlicense@broward.org.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications may be submitted to the EEPD at: 1 North University Drive, Suite 201, Plantation, Florida 33324. Email correspondence may be sent to: aircompliance@broward.org.

3. Appendices: The following Appendices are attached as part of this permit: Appendix A. Citation Formats and Glossary of Common Terms, Appendix B. General Conditions, Appendix C: Common Conditions, Appendix D. General Compliance Testing Requirements (Rule 62-297.310, F.A.C) DO

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 regulations.

5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the EEPD may require the permittee to conform to new or additional conditions. The EEPD shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the EEPD 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 EEPD. 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. Construction and Expiration. The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request to extend the permit expiration date. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to EEPD in writing before the permit expires. [Rules 62-4.070(4), 62-4.080 & 62-210.300(1), F.A.C.]

8. Source Obligation:

   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.] **This condition does not apply to this permit, as the project is not a major modification.**

9. Annual Operating Report (AOR). The AOR shall be submitted to the EEPD by April 1 of the following year. If the report is submitted using FDEP's electronic annual operating report software (EAOR), there is no requirement to submit a copy to EPPD. [Rule 62-210.370(3) (c), F.A.C.]
   {Permitting Note. Information on the EAOR submittal is available at http://www.dep.state.fl.us/air/emission/eaor/default.htm}

10. Operating Permit. Sixty days before the expiration date of this construction permit, the permittee shall apply for an operation permit using the forms incorporated by reference in the specific rule chapter for this type of permit. [Rule 62-4.090 F.A.C.]
    {Permitting Note: The permittee may also elect to submit the application electronically using the Electronic Permit Submittal and Processing system (EPSAP) via the http://www.dep.state.fl.us/air/emission/epsap/default.htm website, along with the processing fee established in Rule 62-4.050(4), F.A.C. , [62-4.090(1) and 62-4.050(4), F.A.C.] **This condition does not apply, as the construction permit is issued concurrently with the Title V Operating Permit Renewal 0112410-010-AV.**

1. **Not Federally Enforceable.** Objectionable Odor. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C. and Broward County Code, Sec. 27-175(e)] from tv

2. VOC or Organic Solvents Emissions. The owner or operator 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 EPPD. Displaced vapors generated during the loading of gasoline and denatured ethanol products shall be vented to a vapor control system.
[Rule 62-296.320(1), F.A.C.]

3. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the outdoor atmosphere any air pollutants from sources, the opacity of which is equal or greater than 20 percent. 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.]

4. General Prohibition and Concealment. Any stationary installation which will reasonably be expected to be a source of pollution shall obtain an appropriate and valid permit, unless exempted by rule. Furthermore, no person shall build, erect, install, or use any article, machine, equipment or other contrivance, the use of which will conceal any emission which would otherwise constitute a violation of any applicable provisions.
[Rule 62-3.030 FAC and Broward County Code, Sec. 27-175(b)]

5. Circumvention. No person shall circumvent any air pollution device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
[Rule 62-210.650 F.A.C and Broward County Code, Sec. 27-175(c)]

6. Maintenance. No person shall operate any air pollution control equipment or systems without proper maintenance to assure compliance with applicable emission limits.
[Rule 62-210.300 (2) (a) 2, F.A.C. and Broward County Code, Sec. 27-175(a)]

7. Special Compliance Tests. When EEPD, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a EEPD rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the EEPD.
[Rule 62-297.310(7) (b), F.A.C.]

8. Capacity. The engines can potentially generate 245 tons of NOx per year (based on EPA AP-42 emission factors) by limiting the combustion of fuel by the engines to 1,024,931 gallons per year in accordance with the applicant request for a fuel consumption limit on the construction permit application received March 7, 2018.
Source Obligation. At such time the source becomes a major PSD source solely by virtue of a relaxation in the fuel consumption limit, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source as though the modification in accordance with permit No. 0112410-002-AC (i.e. construction of S-9A) had not yet commenced on the source.
[Rules 62-4.160(2), 62-210.200(PTE), and 62-212.400(12) (b), F.A.C., 0112410-002-AC]
{Permitting Note: The fuel limit serves to synthetically limit the potential emissions of NOx to below the PSD major source threshold of 250 tons per year, which serve to maintain the source classification as a synthetic minor source under the PSD program.}

9. Methods of Operation - (i.e., Fuels). The alternative fuels for firing the engines are standard (0.5 % S), low (0.05 % S), and ultralow (0.0015 %S) sulfur distillate oil (ULSDO).
[Rules 62-4.070(3) & 62-213.410 (1), F.A.C.]

10. General Compliance Requirements.

(a) The owner or operator shall operate each CI RICE at the source in compliance with the applicable emission limitations, operating limitations, and other requirements of Subpart ZZZZ at all times.

(b) At all times the owner or operator shall operate and maintain each CI RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require 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]

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

1. Surface Coating Activities - when practical, use of partial or total enclosures and limiting outdoor activities to the times of favorable weather conditions to avoid off site impacts.
2. Lawn & Ground Maintenance - application of water to non-vegetative areas as needed, landscaping and grass in other areas as necessary.
3. Parking Areas - application of water as needed.
4. Paved and Unpaved Roads - as needed, application of water, the removal of particulate matter from paved roads, limited site access to vehicles, and vehicle speed limitations.

[Rule 62-296.320(4) (c), F.A.C., Permit Application 0112410-009-AV)

A. EU 004, 005, 006, 007, 008, 012

This section of the permit addresses the following emission units.

Diesel Engines for water pumping at Pump Stations S-9 and S-9A

E.U. ID	Engine No.	Pump Station	Serial No.	Site-Rated Horsepower
004	1	S-9	8RB00325	1,824
005	2	S-9	8RB00330	1,824
006	3	S-9	8RB00348	1,824
007	4	S-9A	38S23502	624
008	5	S-9A	38S20601	624
012	9	S-9A	38S20809	624

Each CI RICE is equipped with a diesel oxidation catalyst (DOC) add-on control devices to promote the oxidation reactions of carbon monoxide (CO), hydrocarbons and partially oxidized hydrocarbons into carbon dioxide (CO2) and water. Add-on controls are required to meet the CO emissions limit imposed by Subpart ZZZZ.
{Permitting Note: The emission units are regulated under NESHAP - 40 CFR 63, Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines adopted and incorporated by reference in Rule 62-204.800(11) (b) 82 F.A.C, , except that the Secretary is not the Administrator for purposes of the authorities cited at 40 C.F.R. 63.6670(c) (1) through (5)}

EMISSIONS STANDARDS

1. Emission Limitations and Operating Requirements. Emission units 004 thru 008 and 012 are subject to the requirements shown in the following tables (Table 2d and Table 2b to Subpart ZZZZ).
(Note. Compliance with the numerical emission limitations in Table 2d is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in 40 CFR 63.6620 (see Condition.7).)
(Note. The owner or operator has selected Option B of Table 2d. Condition A.2 outlines the requirements for Compliance with Option B.)

Table 2d to Subpart ZZZZ of Part 63— Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

For each . . .	*The owner or operator shall meet one of the following options, except during periods of startup . . .*
3. Non-Emergency, non-black start CI stationary RICE >500 HP	*Option A.* Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O_2; or *Option B.* Reduce CO emissions by 70 percent or more.

Table 2b to Subpart ZZZZ of Part 63—Operating Limitations for Existing CI RICE >500 HP Located at an Area Source of HAP Emissions

For each . . .	*The owner or operator shall meet the following operating limitation . . .*
2. Existing CI stationary RICE >500 HP complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst	a. Maintain the 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 the 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.[1]

[1]Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8 (g) for a different temperature range.
[40 CFR 6603 (a)]
{Permitting Note. The owner or operator shall ensure that the installed catalytic control device is operated within the manufacturer recommended RICE exhaust temperature range to avoid invalidating the device warranty.}

2. Demonstrating Initial Compliance with each Emission and Operating Limitation
   (a) The owner or operator shall demonstrate initial compliance with each emission limitation, operating limitation, and other requirement in Condition A.1 according to Table 5 of ZZZZ.

Table 5 to Subpart ZZZZ of Part 63—Initial Compliance with Emission Limitations and Operating Limitations

For each. . .	*If Complying with the requirement to*	*The owner or operator has demonstrated initial compliance if. . .*
1. existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Reduce CO emissions and using oxidation catalyst, and using a CPMS	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. The owner or operator have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in 40 CFR 63.6625(b) (see Condition .8); and iii. The owner or operator has recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.

   (b) During the initial performance test, the owner or operator shall establish each operating limitation in Table 2b of subpart ZZZZ (see Condition 1).
   (c) The owner or operator shall submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.6645 (see Condition 9).
   [40 CFR 63.6630]

3. Demonstrating Continuous Compliance with the Emission Limitations and Operating Limitations
   (a) The owner or operator shall demonstrate continuous compliance with each emission limitation and operating limitation in Table 2d to subpart ZZZZ (see Condition 1) according to methods specified in Table 6 to subpart ZZZZ as follow.

Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance with Emission Limitations, Operating Limitations, Work Practices, and Management Practices

For each . . .	*Complying with the requirement to . . .*	*The owner or operator shall demonstrate continuous compliance by . . .*
10. Existing stationary CI RICE	a. Reduce CO emissions, or limit the concentration	i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO

>500 HP that are not limited use stationary RICE	of CO in the stationary RICE exhaust, and using oxidation catalyst	to demonstrate that the required CO percent reduction is achieved; and ii. Collecting the catalyst inlet temperature data according to 40 CFR 63.6625(b) (see Condition A.8); and iii. Reducing these data to 4-hour rolling averages; and iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and v. 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 performance test.

(b) *Response to deviations*. The owner or operator shall report each instance of not meeting each emission limitation or operating limitation in Table 2d (see Condition 1). These instances are deviations from the emission and operating limitations in Subpart ZZZZ. These deviations shall be reported according to the requirements in 40 CFR 63.6650 (see Condition A.10). If the catalyst is changed, the values of the operating parameters measured during the initial performance test shall be reestablished. When reestablishing the values of the operating parameters, a performance test is also required to demonstrate that each RICE is meeting the required emission limitation.

(c) – (d) [NA for existing CI RICE].

(e) *General provisions*. The owner or operator shall also report each instance of not meeting the applicable requirements in Table 8 to subpart ZZZZ (Appendix D).

[40 CFR 63.6640]

4. <u>Monitoring and Collecting Data to Demonstrate Continuous Compliance</u>

(a) [Blank].

(b) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the owner or operator shall 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.

(c) The owner or operator may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The owner or operator shall, however, use all the valid data collected during all other periods.

[40 CFR 63.6635]

5. <u>Fuel Requirements</u>. The owner or operator shall burn diesel fuel that meets the requirements in 40 CFR80.510 (b) for nonroad (NR) diesel fuel which requires diesel fuel to meet the following per-gallon standards:

(1) Sulfur content.

(i) 15 ppm (0.0015% S) maximum for NR diesel fuel.

(2) Cetane index or aromatic content, as follows:

(i) A minimum cetane index of 40; or

(ii) A maximum aromatic content of 35 volume percent.

[40 CFR 63.6604 (a)]

TESTING AND MONITORING REQUIREMENTS

6. Frequency of Testing.

(a) *Initial performance tests.* The owner or operator shall conduct initial performance test or other initial compliance demonstration according to Table 4 (see Condition 7) and Table 5 (see Condition 2) to this subpart within 180 days after the compliance date. [40 CFR 6612 (a), CFR 63.7(a) (2)]

(b) *Subsequent performance tests*. The owner or operator shall conduct subsequent performance tests as specified in Table 3 to Subpart ZZZZ.

Table 3 to Subpart ZZZZ of Part 63—Subsequent Performance Tests

For each . . .	*Complying with the requirement to . . .*	*The owner or operator shall . . .*
4. Existing non-emergency, non-black start CI stationary RICE >500 HP that are not limited use stationary RICE	Limit or reduce CO emissions and not using a CEMS	Conduct subsequent performance tests every 8,760 hrs, or 3 years, whichever comes first.

[40 CFR 6615]

Permitting Note: Rule 62-297.310(3), F.A.C. Operating Conditions during Emissions Testing. Testing of emissions shall be conducted with the emissions unit operating at the testing capacity as defined below. If it is impracticable to test at the testing capacity, an emissions unit may be tested at less than the testing capacity. If an emissions unit is tested at less than the testing capacity, another emissions test shall be conducted and completed no later than 60 days after the emissions unit operation exceeds 110% of the capacity at which its most recent emissions test was conducted. ***Since the permittee is not able to control the load capacity of the engines during testing or pumping operations due to the fact, that water elevations are dictated by environmental conditions and not the permittee,and the load capacity is the difference between the head water and tail water, the permittee would be allowed to conduct the compliance test at the highest capacity, as it is practicable at the time of the scheduled test and omiit additional testing, if operating capacity exceeds 110% of capacity during compliance testing.***

7. Performance Test Methods.

{Note. Appendix B lists the general compliance testing requirements.}

(a) The owner or operator shall conduct each applicable performance test in Tables 3 (see Condition 6) and the following Table 4.

Table 4 to Subpart ZZZZ of Part 63—Requirements for Performance Tests

	If Complying with	*The owner or operator shall . . .*	*According to the following requirements . . .*
1. CI stationary RICE	a. Reducing CO emissions	i. Measure the O_2 at the inlet and outlet of the control device using Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522-00 (Reapproved 2005).[a c]; and	(a) Measurements to determine O_2 must be made at the same time as the measurements for CO concentration.
		ii. Measure the CO at the inlet and the outlet of the control device using ASTM D6522-00 (Reapproved 2005) [a b c]or Method 10 of 40 CFR part 60, appendix A	(a) The CO concentration must be at 15 percent O_2, dry basis

a Incorporated by reference, see 40 CFR 63.14. May also obtain copies from University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.
b May also use Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03.
c ASTM-D6522-00 (2005) may be used to test both CI and SI stationary RICE.

(b) - (c) [Non-operational CI RICE]

(d) *Test runs.* The owner or operator shall conduct three separate test runs for each performance test required in paragraph (a) above, as specified in 40 CFR 63.7(e) (3) (see Appendix 1, below). Each test run shall last at least 1 hour.

(e) (1) *Complying with the Reduce CO emissions Option.* Equation 1 of this section shall be used to determine compliance with the percent reduction requirement:

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

Where:
C_i= concentration of CO at the control device inlet,
C_o= concentration of CO at the control device outlet, and
R = percent reduction of CO emissions.

(2) The CO concentrations at the inlet and outlet of the control device shall be normalized to a dry basis and to 15 percent oxygen, or an equivalent percent CO_2. If pollutant concentrations are to be corrected to 15 percent oxygen and CO_2concentration is measured in lieu of oxygen concentration measurement, a CO_2correction factor is needed. Calculate the CO_2correction factor as described in paragraphs (e) (2) (i) through (iii) of this section.

(i) 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:

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

Where:
F_o= Fuel factor based on the ratio of oxygen volume to the ultimate CO_2volume 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_2produced to the gross calorific value of the fuel from Method 19, dsm^3 /J (dscf/10^6 Btu).

(ii) Calculate the CO_2correction factor for correcting measurement data to 15 percent oxygen, as follows:

$$X_{co_2} = \frac{5.9}{F_o} \qquad \text{(Eq. 3)}$$

Where:
X_{co2}= CO_2correction factor, percent.
5.9 = 20.9 percent O_2 − 15 percent O_2, the defined O_2correction value, percent.

(iii) Calculate the NO_X and SO_2gas concentrations adjusted to 15 percent O_2using CO_2as follows:

$$C_{adj} = C_d \frac{X_{co_2}}{\%CO_2} \qquad \text{(Eq. 4)}$$

Where:
$\%CO_2$= Measured CO_2concentration measured, dry basis, percent.

(f) [NA, Reduce CO and not using an oxidation catalyst]

(g) [NA, Petition the Administrator for approval of operating limitations if not using an oxidation catalyst]

(h) [NA. Petition the Administrator for approval of no operating limitations].

(i) [NA, Engine percent load during a performance test for new non-emergency CI stationary RICE with a site rating of greater than 500 brake HP located at a major source of HAP emissions].

[40 CFR 63.6620, Table 4 and 5 of Subpart ZZZZ]

MONITORING, INSTALLATION, COLLECTION, OPERATION, AND MAINTENANCE REQUIREMENTS

8. (A) [NA, CEMS Option]

(b) CPMS Requirement

If the owner or operator is required to install a CPMS as specified in Table 5 of Subpart ZZZZ (see Condition A.2), the owner or operator shall install, operate, and maintain each CPMS according to the requirements in paragraphs (b) (1) through (6) of this section.

(1) The owner or operator shall prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (b) (1) (i) through (v) of this section and in 40 CFR 63.8(d). As specified in 40 CFR 63.8(f) (4) (see Appendix 1, below), the owner or operator may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs (b) (1) through (5) of this section in the site-specific monitoring plan.

(i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

(ii) Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;

(iii) Equipment performance evaluations, system accuracy audits, or other audit procedures;

(iv) Ongoing operation and maintenance procedures in accordance with provisions in 40 CFR 63.8(c) (1) and (c) (3) (see Appendix 1, below); and

(v) Ongoing reporting and recordkeeping procedures in accordance with provisions in 40 CFR 63.10(c), (e) (1), and (e) (2) (i) (see Appendix 1, below).

(2) The owner or operator shall install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.

(3) The CPMS shall collect data at least once every 15 minutes (see also 40 CFR 63.6635, Condition 4).

(4) For a CPMS for measuring temperature range, the temperature sensor shall have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.

(5) The owner or operator shall conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.

(6) The owner or operator shall conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(c) – (f). [NA to any engine in EU 004 thru 008, and 012].

(g) Engines not equipped with a closed crankcase ventilation system

For CI engine not equipped with a closed crankcase ventilation system, the owner or operator shall comply with either paragraph (g) (1) or paragraph (g) (2) of this section. Owners and operators shall follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements.

(1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or

(2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.

(h) Engine startup time. The owner or operator shall 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 applicable to all times other than startup in Table 2d to ZZZZ (see Condition 1).

[40 CFR 63.6625]

NOTIFICATIONS, REPORTS, AND RECORDS

9. Applicable Notifications

(a) The owner or operator shall submit all of the applicable notifications in 40 CFR40 CFR 63.7(b) and (c), 63.8(e), (f) (4) and (f) (6), 63.9(b) through (e), and (g) and (h) (see Appendix 1, below) by the dates specified if own or operate existing stationary RICE located at an area source of HAP emissions.

(b) - (f). [NA, major source of HAP].

(g) *Notification of Intent to conduct a performance test*. The owner or operator shall 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)

(h) *Notification of Compliance Status*. The owner or operator shall submit a Notification of Compliance Status according to 40 CFR 63.9(h) (2) (ii).

(1) [NA, initial compliance demonstration that does not includes a performance test].

(2) For each initial compliance demonstration required in Table 5 (see Condition 2) that includes a performance test conducted according to the requirements in Table 3.

6), the owner or operator shall 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]

10. Reporting Requirements.

(a) *Compliance report*. The owner or operator shall submit each applicable report in Table 7 of subpart ZZZZ

Table 7 to Subpart ZZZZ of Part 63—Requirements for Reports

For each ...	*The owner or operator shall submit a compliance report. The report must contain …...*	*Submit the report. . .*
1. Existing non-emergency, non-black start stationary CI RICE >300 HP located at an area source of HAP.	a. If there were no deviations from any emission limitations or operating limitations that apply, 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	i. Semiannually according to the requirements in 40 CFR 63.6650(b) (1)-(5)) (see Condition 10.b). ii. [NA, limited use RICE].
	b. If there was a deviation from any emission limitation or operating limitation during the reporting period, the information in 40 CFR 63.6650(d)) (see Condition 10.d, below). 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)) (see Condition 10.e); or	i. Semiannually according to the requirements in 40 CFR 63.6650(b) (see Condition 10.b).
	c. If there was a malfunction during the reporting period, the information in 40 CFR 63.6650(c) (4) (see Condition 10.c).	i. Semiannually according to the requirements in 40 CFR 63.6650(b)) (see Condition 10.b).

(b) *Reports submission dates*. Unless the Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the owner or operator shall submit each report by the date in Table 7 in paragraph (a) and according to the requirements in paragraphs (b) (1) through (b) (9) of this section.

(1) For semiannual Compliance reports, the first Compliance report shall cover the period beginning on the compliance date and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date.

(2) For semiannual Compliance reports, the first Compliance report shall be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date.

(3) For semiannual Compliance reports, each subsequent Compliance report shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) For semiannual Compliance reports, each subsequent Compliance report shall 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.

(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a) (3) (iii) (A) or 40 CFR 71.6 (a) (3) (iii) (A), the owner or operator may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b) (1) through (b) (4) of this section.

(6) For annual Compliance reports, the first Compliance report shall cover the period beginning on the compliance date and ending on December 31.

(7) For annual Compliance reports, the first Compliance report shall be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date.

(8) For annual Compliance reports, each subsequent Compliance report shall cover the annual reporting period from January 1 through December 31.

(9) For annual Compliance reports, each subsequent Compliance report shall be postmarked or delivered no later than January 31.

(c) *Report content*. The compliance report shall contain the information in paragraphs (c) (1) through (6) of this section.

(1) Company name and address.

(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 there was a malfunction during the reporting period, the compliance report shall 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 shall 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 40 CFR 63.6605(b), including actions taken to correct a malfunction.

(5) If there are no deviations from any applicable emission or operating limitations, 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.

(d) [NA, RICE *without* a CMS].

(e) *RICE with a CMS.* For each deviation from an emission or operating limitation occurring for each RICE using a CMS to comply with the emission and operating limitations in Subpart ZZZZ, the owner or operator shall include information in paragraphs (c) (1) through (4) and (e) (1) through (12) of Condition 10.

(1) The date and time that each malfunction started and stopped.

(2) The date, time, an

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 40 CFR 63.8(c) (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 or formaldehyde) 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.

(f) *TV semiannual report*. Sources shall report all deviations as defined in Subpart ZZZZ in the semiannual monitoring report required by 40 CFR70.6 (a) (3) (iii) (A) or 40 CFR71.6(a) (3) (iii) (A) (State and Federal Operating Permit Programs). f a source submits a Compliance report pursuant to Table 7 (see Condition A.10) along with, or as part of, the semiannual monitoring report required by 40 CFR70.6(a) (3) (iii) (A) or 40 CFR71.6(a) (3) (iii) (A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in Subpart ZZZZ, 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]

11. Recordkeeping Requirements.

(a) The owner or operator shall keep the records described in paragraphs (a) (1) through (a) (5), (b) (1) through (b) (3) and (c) of this section.

(1) A copy of each notification and report that was submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in 40 CFR 63.10(b) (2) (xiv) (see Appendix 1, below).

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in 40 CFR 63.10(b) (2) (viii) (see Appendix D).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b) (see Condition FW4), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) For each CEMS or CPMS, the owner or operator shall keep the records listed in paragraphs (b) (1) through (3) of this section.

(1) Records described in 40 CFR 63.10(b) (2) (vi) through (xi) (see Appendix D).

(2) Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 CFR 63.8(d) (3) (see Appendix 1, below).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in 40 CFR 63.8(f) (6) (i) (see Appendix D), if applicable.

(c) [NA, landfill gas].

(d) The owner or operator shall keep the records required in Table 6 in Condition 3 to show continuous compliance with each applicable emission or operating limitation.

(e) The owner or operator shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the RICE and after-treatment control device was operated and maintained according to source maintenance plan.

[40 CFR 63.6655]

12. Records - Form and Retention Period

(a) Records shall be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b) (1).

(b) As specified in 40 CFR 63.10(b) (1), the owner or operator shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) The owner or operator shall keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b) (1) w).

[40 CFR 63.6660]

13. Compliance Test Report Submittal. The compliance test report shall be submitted to the EEPD as soon as practicable, but no later than 45 days after the last test is completed.

[Rule 62-297.310(8) (a) & (b), F.A.C.]

14. Compliance Test Report Information. The compliance test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow EEPD to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report shall provide the following information:

1. The type, location, and a general layout of the emissions unit tested including a sketch of the duct within 8 stack diameters upstream of the sampling point, including the distance to any upstream bends or other flow disturbances.
2. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters, and their operating parameters during each test run.
3. Test equipment specifications with instrument and calibration information. Data related to the required calibration of the test equipment.
4. Measurement and data acquisition/ analysis/ computation procedures to obtain all measured and calculated data to determine compliance with the emission limiting standard.
5. The names of individuals, who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
6. A certification that, to the knowledge of the owner or his authorized agent, all data submitted is true and correct. When a compliance test is conducted for the EEPD, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rule 62-297.310(8) (c), and 62-4.070(3) F.A.C.]

Diesel Engines for Emergency Generators at Pump Stations S-9 and S-9A

This section addresses the following emissions units:

E.U. ID	Engine No.	Pump Station	Serial No.	Site-Rated Horsepower
009	6	S-9	45568800	207
010	7	S-9	45568816	207
011	8	S-9A	46123231	102

EU 009 thru 011 consists of CI RICE used to operate emergency generators. The three (3) emergency generators (009, 010 and 011) are classified as "institutional emergency RICE) pursuant to 40 CFR 63.6585(f) (3)

{Permitting Note: This emission unit is regulated under NESHAP - 40 CFR 63, Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines adopted and incorporated by reference in Rule 62-204.800(11) (b) 82 F.A.C, , except that the Secretary is not the Administrator for purposes of the authorities cited at 40 C.F.R 63.6670(c) (1) through (5)}

1. Emergency Operating Requirements. To maintain classification as an emergency CI RICE, EU 009 thru 011shall meet the following:
   (1) Each RICE shall operate to provide electrical power or mechanical work during an emergency situation.
   (2) Each RICE shall operate under limited circumstances for situations not included in paragraph (1) of this definition, as specified in 40 CFR 63.6640(f), as follow.
      (a) – (e). [NA, non-emergency operations]
      (f) Any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f) (1) through (4) of this section, is prohibited.
         (1) There is no time limit on the use of emergency stationary RICE in emergency situations.
         (2) The owner or operator may operate an emergency stationary RICE for any combination of the purposes specified in paragraphs (f) (2) (i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f) (3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f) (2).
            (i) The RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
            (ii) The RICE 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.
            (iii) The RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
         (3) [NA, RICE located at major sources of HAP]
         (4) The RICE 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 (f) (2) of this section. Except as provided in paragraphs (f) (4) (i) and (ii) of this section, 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 an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.

(ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

(3) Each RICE is operated as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in Condition 1. (2) (f) (2) (ii) or (iii) and (f) (4) (i) or (ii).

[40 CFR 63.6675, 6640 (f)]

2. Operating Standards. The owner or operator shall comply with the applicable requirements in Table 2d to subpart ZZZZ as follow.

Table 2d to Subpart ZZZZ of Part 63—Requirements for Existing CI RICE located at Area Sources of HAP Emissions

For each . . .	*Owner or Operator shall meet the following requirement, except during periods of startup . . .*
4. Emergency CI RICE [2]	a. Change oil and filter every 500 hours of operation or annually, whichever comes first;[1] b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary

[1]Sources have the option to utilize an oil analysis program as described in 40 CFR 63.6625(i) in order to extend the specified oil change requirement in Table 2d of Subpart ZZZZ

[2]If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of Subpart ZZZZ, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources shall report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.
[40 CFR 63.6603 (a)]

3. Fuel Requirements. Beginning January 1, 2015, if any RICE that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f) (2) (ii) and (iii) (see Condition B.1) or that operates for the purpose specified in 40 CFR 63.6640(f) (4) (ii) (see Condition 1), shall use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted. Rule 40 CFR 80.510(b) requires that diesel fuel to meet the following per-gallon standards:
(1) Sulfur content.
(i) 15 ppm (0.0015% S) maximum for NR diesel fuel.
(2) Cetane index or aromatic content, as follows:
(i) A minimum cetane index of 40; or
(ii) A maximum aromatic content of 35 volume percent.
[40 CFR 63.6604 (b)]

4. Operation and Maintenance Requirements
(a) – (d) [NA to engines in EU 009 thru 011].
(e) The owner or operator shall operate and maintain the stationary RICE according to the manufacturer's emission-related written instructions or own maintenance plan which shall 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.
(f) The owner or operator shall install a non-resettable hour meter if one is not already installed.
[40 CFR 63.6625]

5. Demonstrating Continuous Compliance with the Emission Limitations and Operating Limitations
(a) The owner or operator shall demonstrate continuous compliance with each operating limitation in Table 2d to subpart ZZZZ (see Condition B.2) according to methods specified in Table 6 to subpart ZZZZ as follow.

Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance with Emission Limitations, Operating Limitations, Work Practices, and Management Practices

For each . . .	*Complying with the requirement to . . .*	*The owner or operator shall demonstrate continuous compliance by . . .*
9. Existing emergency and black start stationary RICE located at an area source of HAP.	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow 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

(b) *Response to deviations*. The owner or operator shall report each instance of not meeting each operating limitation in Table 2d (see Condition 2). These instances are deviations from the emission and operating limitations in Subpart ZZZZ. These deviations shall be reported according to the requirements in 40 CFR 63.6650 (see Condition 6).
(c) – (d) [NA to engines in EU 009 thru 011].
(e) *General provisions*. The owner or operator shall also report each instance of not meeting the applicable requirements in Table 8 to subpart ZZ.
(f) *Emergency operations*. The owner or operator shall operate each RICE according to the requirements in 40 CFR 63.6640 (f) (1) through (4) (see Condition 1)
[40 CFR 63.6640]

RECORDKEEPING REQUIREMENTS

6. Reporting Requirements.
(a) *Compliance report*. The owner or operator shall submit each applicable report in Table 7 of subpart ZZZZ

Table 7 to Subpart ZZZZ of Part 63—Requirements for Reports

For each ...	*The owner or operator shall submit a report that contain …...*	*Submit the report. . .*
4. Emergency stationary RICE that operate or are contractually obligated to be available for more than 15 hours per year for the purposes specified in 40 CFR 63.6640(f) (2) (ii) and (iii) (emergency demand response, voltage deviation) or that operate for the purposes specified in 40 CFR 63.6640(f) (4) (ii) (50 hours non-emergency situations) (see Condition B.1)	a. The following information in 40 CFR 63.6650(h) (1): (i) Company name and address where the engine is located. (ii) Date of the report and beginning and ending dates of the reporting period. (iii) Engine site rating and model year. (iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place. (v) Hours operated for the purposes specified in 40 CFR 63.6640(f) (2) (ii) and (iii) (emergency demand response, voltage deviation), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 63.6640(f) (2) (ii) and (iii). (vi) Number of hours the engine is contractually obligated to be available for the purposes specified in 40 CFR 63.6640(f) (2) (ii) and (iii). (vii) Hours spent for operation for the purpose specified in 40 CFR 63.6640(f) (4) (ii) (50 hours non-emergency situations), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 63.6640(f) (4) (ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine. (viii) If there were no deviations from the fuel requirements in 40 CFR 63.6604 (see Condition 3) that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period. (ix) If there were deviations from the fuel requirements in 40 CFR 63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.	i. Annually according to the following requirements in 40 CFR 63.6650(h) (2)-(3): (2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year. (3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/*cdx*). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR 63.13.

[40 CFR 63.6650]

7. Recordkeeping Requirements.

   (a) – (c) [NA to engines in EU 009 thru 011].

   (d) The owner or operator shall keep the records required in Table 6 in Condition B.5 to show continuous compliance with each applicable emission or operating limitation.

   (e) The owner or operator shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the RICE and after-treatment control device was operated and maintained according to source maintenance plan.

   (f) The owner or operator shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in 40 CFR 63.6640(f) (2) (ii) or (iii) (emergency demand response, voltage deviation) or 40 CFR 63.6640(f) (4) (ii) (50 hours non-emergency situations), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

   [40 CFR 63.6655]

8. Records - Form and Retention Period

   (a) Records shall be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b) (1).

   (b) As specified in 40 CFR 63.10(b) (1), the owner or operator shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

   (c) The owner or operator shall keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b) (1).

   [40 CFR 63.6660]

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