SOUTH FLORIDA
WATER MANAGEMENT DISTRICT
Pump Stations S-8 & G-404
Facility ID No.: 0110351
Broward/Palm Beach County

Title V Air Operation Permit Renewal
FINAL Permit Renewal Project No.: 0110351-005-AV

Permitting and Compliance Authority:
State of Florida
Department of Environmental Protection
Southeast District

3301 Gun Club Road
MSC 7210-1
West Palm Beach, Florida 33406

Telephone: 561/681-6600
sed.air@dep.state.fl.us

FINAL Permit Renewal No.: 0110351-005-AV

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHEAST DISTRICT OFFICE
3301 GUN CLUB ROAD; MSC 7210-1
WEST PALM BEACH, FL 33406
561-681-6600

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

CLIFFORD D. WILSON III
INTERIM SECRETARY

Permittee:
South Florida Water Management District
3301 Gun Club Road
West Palm Beach, Florida 33406

FINAL Permit Renewal No.: 0110351-005-AV
Facility ID No.: 0110351
SIC No.: 9511
Project: Title V Air Operation Permit Renewal
Pump Stations S-8 & G-404

The purpose of this permit is to renew Title V Air Operation Permit (Permit No. 0110351-003-AV) and to incorporate the changes and requirements from Construction Permit 0110351-004-AC. This existing facility is located at the junction of canals L-5, L-4, and L-23, 15 miles west of Hwy. 27 along Palm Beach/Broward County line.

UTM Coordinates: Zone 17, 522.3 km East and 2912.2 km North
Latitude: 26° 19’ 53”North and Longitude: 80° 46’ 27” West

This Title V Air Operation Permit Renewal 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 drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:
Appendix A: Abbreviations etc
Appendix H: Permit History
Appendix I: List of Insignificant Activities
Appendix NESHAP, Subpart A – General Provisions.
Appendix NESHAP, Subpart ZZZZ
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Appendix TV-6, Title V conditions (version dated 02-16-12)

Effective Date:
Renewal Application Due Date:
Expiration Date:

_____ _____
Jennifer K. Smith Date
Assistant Director
Southeast District

JKS/dmp/lch/sdt

Section I. Facility Information

Subsection A. Facility Description

The South Florida Water Management District (SFWMD) operates flood control pump stations Nos. S-8 & G-404 located at L-5 Canal, L-4 Canal and L-23 Canal junction, 15 miles west of Hwy. 27 along the Palm Beach/Broward County line.

The pump station S-8 consists of four (4) diesel-fired pump engines rated at 800 hp each with Diesel Oxidation Catalyst air pollution controls. The engines were installed in 1959, and retrofitted in 1996 to install new liners, new timing equipment, and low lift fuel injector systems. The Pump station G-404 consists of three (3) pumps each powered by a diesel fired internal combustion engine with Diesel Oxidation Catalyst pollution controls rated at 440 brake horse power (bhp). The initial startup date was October 1999.

Also included in this permit are two diesel fired 380 hp engines each driving a 250 kw generator @ S-8, and miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the Title V Air Operation Permit Renewal application received on March 6, 2014, this facility is not a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

E.U. ID No.	Brief Description
001	Four (4) internal combustion diesel-fired pump engines rated at 800 hp each @ S-8 fitted with Diesel Oxidation Catalyst pollution controls.
002	Three (3) internal combustion diesel fired pumps engine rated at 440 hp each. @ G-404 fitted with Diesel Oxidation Catalyst pollution controls.
003	Two (2) internal combustion diesel fired 380 hp engines each driving a 250 kw generator. @ S-8
004	One (1) 45 hp diesel engine powering one standby air compressor
005	One (1) diesel engine driving a 5 kW emergency generator at G-404 Cummins Onan Model QD 5000 or equal.

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.
<u>These documents are provided to the permittee for information purposes only:</u>

Statement of Basis
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History

<u>These documents are on file with the permitting authority:</u>

0990618-001-AG General Permit for Pump Station G-404 (Palm Beach County)
0990351-001-AV Initial Title V Air Operation Permit issued May 1, 1998 (Palm Beach County)
0110351-001-AV Initial Title V Air Operation Permit issued May 1, 1998 (Moved to Broward Co. Jurisdiction
Pollution Prevention Plan received April 2, 2003
0110351-002-AV Title V Air Operation Permit Renewal issued February 18, 2005 (Incorporating the adjacent G-404 Pump Station, previously under a separate General Permit)
Application for a Title V Air Operation Permit Renewal received April 29, 2009
0110351-003-AV Title V Air Operation Permit Renewal issued November 9, 2009
Construction Permit Application received November 15, 2011 (to add oxidation Catalysts to EU001 & EU002)
0110351-004-AC Construction Permit issued May 10, 2012
Application for a Title V Air Operation Permit Renewal received March 6, 2014
Application for a combined Title V Air Operation Permit Renewal and Construction Permit received July 8, 2014

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

FW1. Appendices. The permittee shall comply with all documents identified in Section 4, 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.]

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 Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.

[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

FW4. Prevention of Accidental Releases (Section 112(r) of CAA).

a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
Post Office Box 10162
Fairfax, VA 22038
Telephone: 703/227-7650
and,

b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.
[40 CFR 68]

FW5. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), F.A.C.]

FW6. Insignificant Activities. Appendix I-1, List of Insignificant Activities, is a part of this permit.
[Rules 62-213.440(1) & 62-213.430(6) & 62-4.040(1)(b), F.A.C.]

FW7. General Pollutant Emission Limiting Standards. 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 (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
{Permitting Note: Nothing was deemed necessary and ordered at this time.}
[Rule 62-296.320(1)(a), F.A.C.]

FW8. Emissions of Unconfined Particulate Matter. Pursuant to Rules 62-296.320(4) (c) 1. 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements (see Condition 57. of APPENDIX TV-6, TITLE V CONDITIONS):
The following requirements are "not federally enforceable":

- Surface Coating Activities – When practical, use of partial or total enclosures;
- Lawn and Ground Maintenance – Application of water to non-vegetative areas as needed, landscaping and planting grass in other areas as necessary;
- Abrasive Blasting – Confining abrasive blasting where possible;
- Parking Areas – Application of water as needed; and,
- Paved and Unpaved Roads – As needed, application of water on unpaved roads, removal of particulate matter from paved roads, limiting site access to vehicles, and vehicle speed limitations.

[Rule 62-296.320(4)(c)2., F.A.C.; and, proposed by the applicant in the Renewal Title V permit application received April 29, 2009.]

FW9. Time-specific Requirements. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.
[Rule 62-213.440, F.A.C.]

Annual Reports and Fees

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

FW10. Electronic Annual Operating Report and Title V Annual Emissions Fees. The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection's Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP's Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. Each Title V source must pay between January 15 and April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C. The annual fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source's most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions are subject to the fee and the total Title V Annual Emissions Fee that is due. The submission of the annual Title V emissions fee payment is also due (postmarked) by April 1st of each year. A copy of the system-generated EAOR Title V Annual Emissions Fee Invoice and the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070.** Additional information is available by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm. [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and, §403.0872(11), Florida Statutes (2013)]

{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: http://www.dep.state.fl.us/air/emission/eaor. If you have questions or

need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}

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

FW11. 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: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of APPENDIX TV-6, TITLE V CONDITIONS)}

FW12. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Southeast District office.

Department of Environmental Protection
Southeast District Office
Air Section
3301 Gun Club Road; MSC 7210-1
West Palm Beach, Florida 33406
Telephone: 561/681-6600
Email: sed.air@dep.state.fl.us

FW13. Submittals to USEPA. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air and EPCRA Enforcement Branch
Air Enforcement Section
61 Forsyth Street
Atlanta, Georgia 30303-8960
Telephone: 404/562-9155; Fax: 404/562-9163

FW14. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.
[Rule 62-213.420(4), F.A.C.]

FW15. Fuel Limitation: Total fuel consumption by all four (4) internal combustion diesel fired pumps engine within the G-404 pump station is limited to 250,000 gallons per twelve (12) month rolling total of diesel fuel.
[Rules 62-212.400(4) & (5), F.A.C., Applicant's request to escape from PSD requirements]

Section III. Emissions Unit Special Conditions.

Subsection A. This section addresses the following emissions units.

E.U. ID No.	Brief Description	See Specific Conditions
001	Four (4) internal combustion diesel-fired pump engines rated at 800 hp each @ S-8	A.1, A.3 – A.13, A.15 – A.19
002	Three (3) internal combustion diesel fired pumps engine rated at 440 hp each. @ G-404	A.1 – A.5, A.9 – A.12, A.14-A.15, A.18 – A.20

The EU001 engines in the S-8 Pump Station operate with Diesel Oxidation Catalyst pollution controls, and provide a total pumping capacity of 2,688,786,000 gallons of water per 24 hours. **These units were constructed prior to the PSD regulations and hence PSD rules do not apply to the units at S-8.**

{Note: These emission units are subject to 40 CFR Part 63, Subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)." The emissions unit shall comply with the applicable requirements of 40 CFR part 63, Subpart ZZZZ.}

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

A.1. Hours of Operation: This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.
[Rule 62-210.200(PTE), F.A.C.]

Note: Condition A.2. is only applicable to EU002 and EU005

A.2. Total fuel consumption by all diesel engines at Pump Station G-404 (three (3) internal combustion diesel fired pumps engines (EU002) and one emergency generator (EU005)) are limited to 250,000 gallons per twelve (12) month rolling total of diesel fuel,
[Rules 62-212.400(4) & (5), F.A.C., Applicant's request to escape from PSD requirements]

A.3. Allowable Fuel. The 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) for non-road diesel fuel.

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

[40 CFR 63.6604 and 40 CFR 80.510(b)]

OPERATION

A.4. The permittee shall meet the following operating limitations:

a) Maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and

b) Maintain the temperature of the engine's exhaust so that the catalysts inlet temperature is greater than or equal to 450 degrees Fahrenheit and less than or equal to 1350 degrees Fahrenheit.

[40 CFR 63.6603(a)]

EMISSION LIMITATIONS AND STANDARDS

A.5. Emission Limitations: The permittee shall meet the following operating limitations:

a) Limit Concentration of carbon monoxide (CO) in the exhaust to (23 ppmvd EU 001) and (49 ppmvd EU 002) at 15% O2; or

b) Reduce CO emissions by 70 percent.

[40CFR 63.6603(a)]

TEST METHODS AND PROCEDURES

Note: Condition A.6. is only applicable to EU001

A.6. Performance Testing: The permittee shall conduct performance tests as specified in Table 3 of Part 63, subpart ZZZZ every 8,760 hours or 3 years, whichever comes first, in accordance with subpart ZZZZ requirements.

[40 CFR63.6615]

Note: If the permittee operates a non-operational stationary RICE that is subject to performance testing, the permittee does not need to start up the engine solely to conduct the performance test. The permittee can conduct the performance test when the engine is started up again.

[40 CFR 63.220(a) & (b)]

MONITORING OF OPERATION

Note: Conditions A.7. and A.8. are only applicable to EU001.

A.7. Continuous Parameter Monitoring System: The permittee is required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of 40 CFR 63 Subpart ZZZZ, and must install, operate, and maintain each CPMS according to the requirements in paragraphs a) 1) through 5) of this condition. For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in paragraph A.7.a) are applicable September 6, 2011.

a) You must 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 (1)(i) through (v) of this section and in §63.8(d). As specified in §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 (6) of this section in your site-specific monitoring plan.

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 §63.8(c)(1) and (c)(3); and

5) Ongoing reporting and recordkeeping procedures in accordance with provisions in §63.10(c), (e)(1), and (e)(2)(i).

b) The permittee must install, 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 §63.6635).

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

f) The permittee shall conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

40 CFCR 63.6625(b)]

A.8. Continuous Compliance Requirements

a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.

b) 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.

c) 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.9. The permittee must report each instance in which the emission limitation is not met or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to 40 CFR 63 Subpart ZZZZ that apply to you. These instances are deviations from the emission and operating limitations in 40 CFR 63 Subpart ZZZZ. These deviations must be reported according to the requirements in§63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that the emissions units are meeting the required emission limitation applicable.
[40 CFR 63.6640(b)]

NOTIFICATION REQUIREMENTS

A.10. You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified.
[40 CFR 63.6645(a)]

A.11. Notification of Performance Tests: The permittee shall notify the Department in writing of the intent to conduct a performance test at least 60 calendar days before the performance test is initially scheduled to begin to allow the Department, upon request, to review and approve the site-specific test plan and have an observer present during the test.
[40 CFR 63.7(b)(1)]

A.12. If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 of 40 CFR 63 Subpart ZZZZ, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).

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

completion of the initial compliance demonstration.

b) For each initial compliance demonstration required in Table 5 of 40 CFR 63 Subpart ZZZZ that includes a performance test conducted according to the requirements in Table 3 of 40 CFR 63 Subpart ZZZZ, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).

[40CFR 63.6645(h)]

REPORTING REQUIREMENTS

Note: Condition A.13. is only applicable to EU001.

A.13. Compliance Report.

a) The permittee shall submit Semiannual Compliance Report, as required in Table 7 of 40 CFR part 63, subpart ZZZZ, containing the following information:

1) If there are no deviations from any emission limitations or operating limitations that apply to you, 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 CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period; or

2) If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in §63.6650(d). If there were periods during which the CPMS, was out-of-control, as specified in §63.8(c)(7), the information in §63.6650(e); or

3) If you had a malfunction during the reporting period, the information in §63.6650(c)(4)

[40 CFR 63.6650(a)]

b) The permittee shall submit the report required as specified below:

1) The first Compliance report must cover the period beginning on the compliance date that is specified in Specific Condition 3.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) The first Compliance report must 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 that is specified in Specific Condition 3.

3) Each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December

4) Each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

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), you 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.

[40 CFR 63.6650(b)]

c) The compliance report must contain the information in paragraphs (1) through (6) as specified below:

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 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 §63.6605(b), 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 CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

[40CFR 63.6650(c)]

d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CPMS to comply with the emission or operating limitations in 40 CFR 63 Subpart ZZZZ, the Compliance report must contain the information in paragraphs c)(1) through (4) of this condition and the information in paragraphs 1) and 2) below.

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

[40 CFR 63.6650(d)]

e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CPMS to comply with the emission and operating limitations in 40 CFR 63 Subpart ZZZZ, you must include information in paragraphs (c)(1) through (4) and (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).
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
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.

[40 CFR 63.6650(e)]

f) Each affected source that has obtained a Title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in 40 CFR 63 Subpart ZZZZ in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of 40 CFR 63 Subpart ZZZZ along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in 40 CFR 63 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(f)]

RECORDKEEPING REQUIREMENTS

Note: Condition A.14. is only applicable to EU002

A.14. To ensure compliance with Specific Condition **A.2.**, which specifies that the 12-month total diesel fuel consumption of Emissions Unit 002 does not exceed 250,000 gallons:

a) Within the first 15 days of each month, the permittee shall record in a written log the following:
1) Gallons of diesel fuel consumed for the previous month of operation;
2) Gallons of diesel fuel consumed for the previous consecutive 12 month of operation (including the previous month consumption discussed as above; and
3) Hours of operation for each pump engine for the previous month of operation.

b) For daily fuel consumption monitoring. Once per day, the permittee shall record in written log the following information:
1) Gallons of diesel fuel consumed for the day of operation
2) Gallons of diesel fuel consumed for the previous consecutive 365 days of operation; and
3) Hours of operation for each pump engine for the day of operation.

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

A.15. The permittee must keep the records listed below:

a) A copy of each notification and report that you submitted, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted.
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.
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 including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[40 CFR 63.6655(a)]

Note: Conditions A.16. and A.17. are only applicable to EU001

A.16. For each CPMS, you must keep the following records:

a) Records described in §63.10(b)(2)(vi) through (xi).

b) Previous versions of the performance evaluation plan as required in

c) Requests for alternatives to the relative accuracy test for CPMS if applicable.

[40 CFR 63.6655(b)

A.17. You must keep the records required in Table 6 of 40 CFR 63 Subpart ZZZZ to show continuous compliance with each emission or operating limitation that applies to you.
[40 CFR 63.6655(d)

A.18. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device according to your own maintenance plan.
[40 CFR 63.6655(e)]

A.19. Records shall be retained as follows:

a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

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

[40 CFR 63.6660]

SUBSECTION B. THIS SECTION ADDRESSES THE FOLLOWING EMISSIONS UNITS

E.U. ID No.	Brief Description	See Specific Conditions
003	Two (2) internal combustion diesel fired 380 hp engines each driving a 250 kw emergency generator. @ S-8	B.1. – B.10.
004	One (1) 45 hp diesel engine powering one standby air compressor @ S-8	B.1. – B.2 B.4. – B.10

{Note: These emissions units are subject to 40 CFR Part 63, Subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)." The emissions units shall comply with the applicable requirements of 40 CFR part 63, Subpart ZZZZ}

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

B.1. Hours of Operation**.**

a) EU003 Emergency Generator**:**

1) Emergency Situations. There is no time limit on the use of emergency stationary RICE in emergency situations.
[40 CFR 63.6640(f)(1)]

2) Maintenance and Testing. Each RICE is authorized to operate for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year.
[40 CFR 63.6640(f)(1)]

3) Non-emergency Situations. Each RICE is authorized to operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing.
[40 CFR 63.6640(f)(1)]

4) Other Situations. Each RICE cannot be used for peak shaving 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; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph, as long as the power provided by the financial arrangement is limited to emergency

power.
[40 CFR 63.6640(f)(1)]

5) Engine Startup. During periods of startup the owner or operator must minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for the appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

b) EU004 Air Compressor:

1) Emissions Unit 004 has no limitation on the hours of operation.

[40 CFR 63.6625(h)]

Note: Condition B.2. is only applicable to EU003.

B.2. Allowable Fuel. The 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) for non-road diesel fuel.

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

[40 CFR 63.6604 and 40 CFR 80.510(b)]

EMISSION LIMITATIONS AND OPERATING REQUIREMENTS

{Permitting note: These "existing" stationary emergency CI engines with < 500 HP do not have specific numerical emission limitations and standards.}

B.3. Work or Management Practice Standards.

a) *Oil*. Change oil and filter every 500 hours of operation or annually, whichever comes first.
[40 CFR 63 Table 2c(1)(a)]

b) *Air Cleaner*. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first.
[40 CFR 63 Table 2c(1)(b)]

c) *Hoses and Belts*. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR 63 Table 2c(1)(c)]

d) *Operation and Maintenance*. Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions or develop and follow your own maintenance plan which must provide, to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution, control practice for minimizing emissions.
[40 CFR 63.6625(e)]

e) *Oil Analysis*. The owner or operator has the option of using oil analysis to extend the change requirement. The oil analysis must be performed at the same frequency specified for changing the oil. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent of water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent of water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of

the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
[40 CFR 63.6625(i)]

Monitoring of Operations

Note: Conditions B.4. is only applicable to EU003.

B.4. Hour Meter. The owner or operator must install a non-resettable hour meter if one is not already installed.
[40 CFR 63.6625(f)]

Compliance Requirements

B.5. Continuous Compliance. Each unit shall be in compliance with the emission limitations and operating standards in this section at all times.
[40 CFR 63.6605(a)]

B.6. Operation and Maintenance of Equipment. At all times the owner or operator must operate and maintain, any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the 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)]

Recordkeeping Requirements

B.7. Notification, Performance and Compliance Records.

a) A copy of each notification and report that the owner or operator submitted to comply with this section, including all documentation supporting any Initial Notification or Notification of Compliance Status that the owner or operator submitted.

b) The owner or operator must keep the records required in 40 CFR 63.6625(e) of this section to show continuous compliance with each emission limitation or operating requirement.

c) The owner or operator must 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 engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

[40 CFR 63.6655]

B.8. Malfunction Records.

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

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

[40 CFR 63.6655]

B.9. Maintenance Records.

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

b) The owner or operator must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE and after-treatment control device (if any) are operated and maintained according to its own maintenance plan.

[40 CFR 63.6655]

B.10. Record Retention.

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

b) The owner or operator must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

[40 CFR 63.6660 and 40 CFR 63.10(b)(1)]

Reporting Requirements

B.11. Emergency Situation. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required of this section, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work 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 must report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.
[40 CFR 63.6602 Table 2c, footnote 1]

SUBSECTION C. THIS SECTION ADDRESSES THE FOLLOWING EMISSIONS UNITS.

ID No.	Emission Unit Description
005	One (1) diesel engine driving a 5 kW emergency generator at G-404 Cummins Onan Model QD 5000 or equal.

The following table provides important details for this emissions unit:

E.U. ID No.	Engine Brake HP	Date of Construction	Model Year	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Model No.
005	11.1	2014-2015	2014-2015	Diesel	4 cycle	0.240	QD 5000

{Permitting Note: This emissions unit, compression ignition (CI) engine, is regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE adopted in Rule 62.204.800(11)(b), F.A.C. and 40 CFR 60, Subpart IIII, NSPS. This RICE is not used for fire pumps. This permit section addresses "new" stationary CI RICE less than 37 kW (50 hp) with a displacement less than 10 liters per cylinder, that is located at an area source of HAP and that have been modified, reconstructed or commenced construction on or after 6/12/2006 and have a post-2007 (2014) model year. As a new RICE located at an area source, in order to meet the requirements of 40 CFR 63, Subpart ZZZZ, the emissions unit shall meet the requirements of 40 CFR Part 60, Subpart IIII.}

EQUIPMENT

C.1. G-404 Emergency Generator: The permittee is authorized to install One (1) diesel engine driving a 5 kW emergency generator at G-404. The generator will be a Cummins Onan Model QD 5000 or equal which has a maximum rated brake hp of 11.1 and will be certified by the manufacturer to meet U.S. EPA Tier IV emissions requirements. [Application No. 0110351-006-AC]

C.2. Certified Engine: To meet the emission standards of 40 CFR 60, Subpart IIII, the emission unit must be certified to the emission standards in 40 CFR 60.4205(b) as applicable, for the same model year and engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications. [40 CFR 60.4211(c)]

C.3. The Engine will be installed with a non-resettable hour meter. [Rule 62-4.070(4), F.A.C.]

PERFORMANCE RESTRICTIONS

C.4. Permitted Capacity: The generator is permitted to have a 5 kw design capacity powered by a 11.1 hp diesel engine. [Rule 62-210.200(PTE), F.A.C.]

C.5. Authorized Fuel: The Emission Unit is authorized to burn only Ultra Low Sulfur Distillate (Diesel) Fuel.

a) Sulfur Content. The sulfur content shall not exceed 0.0015% by weight for Non-Road fuel.

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

[40 CFR 60.4207(b), 80.510(b) and Application No. 0110351-006-AC]

C.6. Hours of Operation: The hours of emergency operation are not limited (8760 hours per year). However, this emission unit is included with EU002 in the 250,000 gallons/year fuel cap for Pump Station G-404. The emergency generator may operate up to 100 hours per year for maintenance and testing purposes, which includes up to 50 hours per year in non-emergency

situations. [Application No. 0110351-006-AC and Rules 62-4.070(3), 62-210.200(PTE), F.A.C., and 40 CFR 60.4211(f)]

C.7. Other Situations: Each RICE cannot be used for peak shaving 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 60.4219]

EMISSIONS STANDARDS

C.8. Emissions Standards & Limits: The stationary diesel engine shall comply with the following emission standards & limits and demonstrate compliance in accordance with the procedures given in NSPS 40 CFR 60, Subpart IIII. Manufacturer certification can be provided to the Department in lieu of actual stack testing.

Emergency Generator/Engine (< 10 liters/cylinder)	**CO** (g/kW-hr)[1]	**CO** (g/hp-hr)[1]	**PM** (g/kW-hr)	**PM** (g/hp-hr)	**SO_2**[3] (% S)	**NMHC**[4] **+ NOx** (g/kW-hr)	**NMHC**[4] **+ NOx** (g/hp-hr)
Subpart IIII Table 2 (2008 and later)	6.6	4.9	0.40	0.30	0.0015	7.5	5.6

[1] g/kW-hr means grams per kilowatt-hour.
[2] Equivalent lb/hr.
[3] SO_2 emission standard will be met by using ULSD fuel oil in the emergency generator with fuel sulfur (S) content of 0.0015% by weight.
[4] NMHC means non-methane hydrocarbons.

[40 CFR 60.4205(b) & Table 2 to Subpart IIII of Part 60]

C.9. Operation and Maintenance: The stationary CI internal combustion engine and control device (if applicable) must be maintained and operated 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. The owner or operator must meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply. [40 CFR 60.4211(a)]

C.10. If the stationary CI internal combustion engine and control device (if applicable) is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or if changes are made to the emission-related settings in a way that is not permitted by the manufacturer, compliance shall be demonstrated by keeping a maintenance plan and records of conducted maintenance and the engine must, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practice for minimizing emissions. In addition, if the engine and control device is not installed and configured according to the manufacturer's emission-related written instructions, or changes are made to the emission-related settings in a way that is not permitted by the manufacturer, an initial performance test to demonstrate compliance with the applicable emission standards shall be conducted within 1 year of such action. [40 CFR 60.4211(g)]

TESTING REQUIREMENTS

C.11. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(7)(a)9, F.A.C.]

C.12. Test Methods: Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions
6C	Method for Determining SO_2 Emissions (Instrumental)
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates (Optional F-factor method may be used to determine flow rate and gas analysis to calculate mass emissions in lieu of Methods 1-4.)
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800 and 62-297.100, F.A.C.; and Appendix A of 40 CFR 60]

MONITORING REQUIREMENTS

C.13. The permittee shall monitor and maintain records of:

a. Emergency and non-emergency operating time.

b. Fuel Usage.

c. Maintenance.

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

RECORDS AND REPORTS

C.14. Notification, Recordkeeping and Reporting Requirements: The permittee shall adhere to the compliance testing and certification requirements listed in 40 CFR 60.4211 and maintain records demonstrating fuel usage. [40 CFR 60.4211.]

C.15. Test Reports: The permittee shall prepare and submit reports for all required tests, if any, in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(8), F.A.C.]

C.16. Operational Data: If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. [40 CFR 60.4214(c)].