

**South Florida Water Management District
Pump Station S-7**
Facility ID No. 0990354
Pam Beach County, Florida

Title V Air Operation Permit Renewal

DRAFT Permit No. 0990354-010-AV
(Renewal of Title V Air Operation Permit No.0990354-008-AV)



Permitting & Compliance Authority:

State of Florida
Florida Department of Health Palm Beach County
Division of Environmental Public Health
Air & Waste Section
P.O. Box 29 (800 Clematis Street)
West Palm Beach, FL 33402-0029

Telephone: (561) 837-5900
Fax: (561) 837-5295

Title V Air Operation Permit Renewal
DRAFT Permit No. 0990354-010-AV

Table of Contents

<u>Section</u>	<u>Page Number</u>
Placard Page	i
I. Facility Information.	
A. Facility Description.	2
B. Summary of Emissions Units.	2
C. Applicable Regulations.	3
II. Facility-wide Conditions.	4
III. Emission Unit Specific Conditions	
A. EU-004 to EU-006: Three 800-BHP Fairbanks-Morse Pumps.....	7
B. EU-002: Two 380-BHP Cummins Emergency Generators.....	15
IV Appendices.	
Appendix A, Abbreviations, Acronyms, Citations and Identification Numbers.	
Appendix I, List of Insignificant Emissions Units and/or Activities.	
Appendix RR, Facility-wide Reporting Requirements.	
Appendix TR, Facility-wide Testing Requirements.	
Appendix TV, Title V General Conditions.	
Appendix 40 CFR 63 Subpart A, Emissions Standards for Hazardous Air Pollutants for Stationary Categories, Subpart A – General Provisions	
Appendix ZZZZ, 40 CFR Part 63 Subpart ZZZZ “National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)”	
Referenced Attachments. <i>At End</i>	
Appendix H, Permit History.	
Statement of Basis (SOB)	

Mission:

To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.



Rick Scott
Governor

Celeste Philip, MD, MPH
State Surgeon General & Secretary

Vision: To be the **Healthiest State** in the Nation

PERMITTEE:

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

Permit No. 0990354-010-AV
Facility ARMS ID No.: 0990354
SIC Nos.: 9511
Project: Title V Air Operation Permit Renewal for
SFWMD Pump Station S-7

The purpose of this permitting project is to renew the existing Title V permit (0990354-008-AV) and to incorporate conditions in Permit No. 0990354-009-AC for the above referenced facility. Permit No. 0990354-009-AC reduces the existing facility-wide distillate fuel oil cap from 912,591 gallons to 885,660 gallons per any consecutive 12 months (Rolling) total to limit NOx emissions to 235.12 TPY, which is below the major source threshold for PSD applicability (250 TPY). The reduction of the fuel cap is associated with an increase in the NOx emissions factor from 3.73 lb/mmbtu to 3.85 lb/mmbtu resulting from emission verification testing conducted on March 28, 2017.

The existing facility is located in Palm Beach County at 23000 US Hwy 27 at Broward/ Palm Beach County line, Florida. The UTM coordinates of the facility are Zone 17, 546.181 km East, and 2912.928 km North; Latitude: 26° 20' 08" North and Longitude: 80° 32' 12.3" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: **DRAFT**
Renewal Application Due Date: **DRAFT**
Expiration Date: **DRAFT**

DRAFT

Laxmana Tallam, P.E., Environmental Administrator
Air and Waste Section
Division of Environmental Public Health

LT/JP/KB

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

The Title V Source, identified as Pump Station S-7 (SIC Code 9511), has been assigned AIRS ID No. 0990354. SFWMD Pump Station S-7 is an existing Flood Control Pump Stations, which is categorized under Standard Industrial Classification Code No. 9511. Pump Station S-7 is located in Palm Beach County at 23000 US Hwy 27 at Broward/ Palm Beach County line, Florida. The UTM coordinates of the facility are Zone 17, 546.181 km East, and 2912.928 km North; Latitude: 26° 20' 08" North and Longitude: 80° 32' 12.3" West. This site is in an area that is in attainment for all air pollutants subject to Ambient Air Quality Standards (AAQS).

The Pump station S-7 discharges stored water from STA 3/4 into Conservation Area No. 2 and, under extreme water level conditions, to tide via the North New River Canal. The pump station S-7 consists of three horizontal pumps, each rated for 830 cubic feet per second (cfs), for a total of 2,490 cfs. The pump station was designed to pump 0.75 inches of water per day from STA 3/4 within a 24-hour period. Pump station S-7 has operated since February 10, 1961.

This existing facility consists of three 800 brake horsepower (BHP) Fairbanks-Morse 5-cylinder opposed piston 2-cycle engines (FM model 38D8-1/8), two 380 BHP Cummins Onan emergency power generators, two 25,000 gallons above ground distillate oil fuel oil storage tanks, four 200 gallon above ground day tanks and miscellaneous surface coating activities, in addition to other insignificant /exempt activities. Ultra Low Sulfur (0.0015%S) diesel fuel is the primary fuel for all water pumps (3 main engines) and 2 emergency power generators.

The facility is presently classified as a synthetic-minor source under the Federal and State preconstruction review regulations (40 CFR 52.21, Chapters 62-210.300, 62-212.300, and 62-212.400, F.A.C.) based on potential emissions of nitrogen oxides more than 100 tons per year, but less than 250 tons per year. The facility is classified as a major source under the Title V operating permit program (40 CFR Part 70 and Chapter 62-210.200, F.A.C.). The facility is not subject to NSPS. The facility is further classified as a natural minor source of the Hazardous Air Pollutants (HAPs) with maximum individual HAP emissions less than 10 tons per year and total HAPs emissions of less than 25 tons per year. Nitrogen oxides (NOx) emissions, along with other products of combustion are generated during the operation of the internal combustion engines that can be fired on either distillate oil or low sulfur distillate oil.

Subsection B. Summary of Emissions Units.

EU ID No.	Status	Brief Description
001	Inactive	<i>EU No. 001 was divided into three separate emissions units EU 004, EU 005 and EU 006 in previous permit 0990354-007-AC. This was done because of emissions standards for Carbon Monoxide (CO) per Federal Regulation 40 CFR 63 Subpart ZZZZ</i>
002	Regulated	Two 380-BHP emergency generators (RICE) - These are diesel engines powering Cummins Onan emergency electrical generators. The emergency generators are capable of combusting distillate oil only.
003	Insignificant	Volatile Organic Liquid Storage Tanks – <ul style="list-style-type: none">Two 25,000-gallon aboveground storage tanks; andFour 200-gallon day tanks to store distillate fuel oil.
004	Regulated	One 800-BHP Pump Engine (RICE) This emissions unit is a Fairbanks-Morse 5-cylinder opposed piston 2-cycle engine (FM model 38D8-1/8). (Serial Number 968909)
005	Regulated	One 800-BHP Pump Engine (RICE) This emissions unit is a Fairbanks-Morse 5-cylinder opposed piston 2-cycle engine (FM model 38D8-1/8). (Serial Number 968970)
006	Regulated	One 800-BHP Pump Engine (RICE) This emissions unit is a Fairbanks-Morse 5-cylinder opposed piston 2-cycle engines (FM model 38D8-1/8). (Serial Number 968973)

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

SECTION I. FACILITY INFORMATION.

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received **May 01, 2017**, this facility is classified as follows:

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C. (For pollutant NOx)
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C. (This facility escapes PSD regulations by taking a limit on annual diesel fuel consumption.)
- The diesel engines in this facility are not subject to the Major Source NOx RACT requirements in accordance with guidance issued by the Florida Department of Environmental Protection.
- The facility is not subject to any requirements of 40 CFR 60 (NSPS).
- The facility is subject to the requirements of 40 CFR 63 Subpart ZZZZ “National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE)” and 40 CFR 61 Subpart M, Asbestos.

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

Regulation	EU No(s).
<i>Federal Rule Citations</i>	
40 CFR 63, Subpart ZZZZ “National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)”	EU002, EU004, EU005, EU006
40 CFR 63, Subpart A “Emissions Standards for Hazardous Air Pollutants for Stationary Categories, Subpart A – General Provisions”	EU002, EU004, EU005, EU006
<i>State Rule Citations</i>	
62-4 - Permits	Facility Wide
62-204 - Air Pollution Control - General Provisions	Facility Wide
62-210 - Stationary Sources - General Requirements	Facility Wide
62-213 - The facility is a Title V major source of air pollution	Facility Wide
62-212 - Stationary Sources - Preconstruction Review Title V major source of air pollution (PSD)	Facility Wide
62-257 - Asbestos Program	Facility Wide
62-296 - Stationary Sources - Emission Standards	Facility Wide
62-297 - Stationary Sources - Emissions Monitoring	Facility Wide

Subsection D. Relevant Documents

The following documents are on file with the permitting authority:

Title V Operating **Permit renewal application** (0990354-010-AV) received on May 01, 2017.

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

SECTION II. FACILITY-WIDE CONDITIONS

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

FW1. Appendices. The permittee shall comply with all documents identified in Section IV, Appendices. Each document is an enforceable part of this permit unless otherwise indicated. **[Rule 62-213.440, F.A.C.]**

Emissions and Controls

FW2. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. **[Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]**

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department. **[Rule 62-296.320(1), F.A.C.]**

{Permitting Note: Nothing is deemed necessary and ordered at this time.}

FW4. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. This regulation does not impose a specific testing requirement. **[Rule 62-296.320(4)(b), F.A.C.]**

FW5. Unconfined Particulate Matter. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

- a. Surface Coating Areas: When practical, use of partial or total enclosures and limiting outdoor activities to the times of favorable weather conditions to avoid off site impacts.
- b. Lawn & Ground Maintenance: Application of water to non-vegetative areas as needed, landscaping and grass in other areas as necessary.
- c. Parking areas: Application of water as needed.
- d. 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.

[Title V Application for Permit No. 0990354-010-AV]

Annual Reports and Fees

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

FW6. Electronic Annual Operating Report and Title V Annual Emissions Fees. The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection's (DEP) 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, Post Office Box 3070, Tallahassee, Florida 32315-**

SECTION II. FACILITY-WIDE CONDITIONS

3070. Additional information is available by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: <http://www.dep.state.fl.us/air/emission/tvfee.htm>. [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and, §403.0872(11), Florida Statutes (2013)]

{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: <http://www.dep.state.fl.us/air/emission/eaor>. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}

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

FW7. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective.

[Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

FW8. Prevention of Accidental Releases (Section 112(r) of CAA). If, and when, the facility becomes subject to 112(r), the permittee shall:

a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the following address: <https://cdx.epa.gov>. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: <http://www2.epa.gov/rmp>. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.

b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

FW9. Notifications and Reports: The permittee shall submit all compliance-related notifications and reports required by this permit to the Florida Department of Health Palm Beach County and the Florida Department of Environmental Protection's (FDEP) Southeast District Office at:

Florida Department of Health Palm Beach County

Air & Waste Section
Post Office Box 29
800 Clematis Street, 4th Floor
West Palm Beach, Florida 33402-0029
Telephone: (561) 837-5900
Fax: (561) 837-5295

Florida Department of Environmental Protection

Air Program, Southeast District Office
3301 Gun Club Road, MSC 7210-1
West Palm Beach, Florida, 33406
Telephone: (561) 681-6600
Fax: (561) 681 – 6790

FW10. U.S. Environmental Protection Agency, Report & Notifications: Any reports, data, notification, certifications, and requests required to be sent to the U. S. EPA should be sent to:

United States Environmental Protection Agency

Region 4
Air and EPCRA Enforcement Branch, Air Enforcement Section
61 Forsyth Street
Atlanta, GA 30303
Telephone: (404) 562-9155
Fax: (404) 562-9163 or (404) 562-9164

FW11. Semi-annual Monitoring Report: The permittee shall submit reports of any required monitoring at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports. [Rule 62-213.440(1)(b)3.a., F.A.C.]

SECTION II. FACILITY-WIDE CONDITIONS

FW12. Permitted Capacity: The permittee shall not allow, cause, suffer or permit the operation of the unit in excess of the following without prior authorization from the Permitting Authority:

Annual Fuel Consumption: Annual fuel consumption for the pump station including all support equipment shall not exceed **885,660 gallons** of diesel per any consecutive 12 months (Rolling) total.

{Permitting Note: Based on the above fuel consumption limit, facility-wide NO emissions are limited to 235.12 tons per year – less than the PSD threshold of 250 tons per year.}

[Air Construction Permit 0990354-009-AC]

FW13. Permit Renewal and Expiration: The permittee shall apply for a renewal of permit on or before the "Renewal Application Due Date" listed on page one of this permit. Permits being renewed are subject to the same requirements that apply to permit issuance at the time of application for renewal. Permit renewal applications shall contain that information identified in Rules 62-210.900(1) and 62-213.420(3), (6), & (7), F.A.C. Unless a Title V source submits a timely application for permit renewal in accordance with the requirements of Rule 62-4.090(1), F.A.C., the existing permit shall expire and the permittee's right to operate shall terminate. **[Rule 62-213.430(3), F.A.C.]**

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection A. Pump Engines

This subsection of the permit addresses the following group of emissions units:

EU ID No.	Status	Brief Description
004	Regulated	One 800-BHP Pump Engine (RICE) This emissions unit is a Fairbanks-Morse 5-cylinder opposed piston 2-cycle engine (FM model 38D8-1/8). (Serial Number 968909)
005	Regulated	One 800-BHP Pump Engine (RICE) This emissions unit is a Fairbanks-Morse 5-cylinder opposed piston 2-cycle engine (FM model 38D8-1/8). (Serial Number 968970)
006	Regulated	One 800-BHP Pump Engine (RICE) This emissions unit is a Fairbanks-Morse 5-cylinder opposed piston 2-cycle engines (FM model 38D8-1/8). (Serial Number 968973)

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

Note: The emission units listed above are subject to 40 CFR part 63 Subpart ZZZZ “National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)”. These emissions units have been operated since 1961, which is way before the cut-off date June 12, 2006. Therefore, for purpose of Subpart ZZZZ, they are existing units and shall comply with the applicable requirements of the 40 CFR Part 63 Subpart ZZZZ.

PERFORMANCE RESTRICTIONS

III.A.1 Permitted Capacity: The permittee shall not allow, cause, suffer or permit the operation of the unit in excess of the following without prior authorization from the Permitting Authority:

- (a) *Annual Fuel Consumption:* The permittee shall comply with the annual fuel consumption requirement specified in the **Section II, FW12.** of this permit.
- (b) *Fuel Oil consumption Modifications:* If the NOx emission factor measured during the emissions verification test (see Specific Condition [III.A.17](#)) exceeds 3.85 lb/mmbtu, the permittee shall calculate and immediately implement a new fuel oil consumption cap which adequately maintains the facility’s potential emissions below the PSD Major Source threshold. If applicable, within 90 days of completion of emission factor verification testing, the permittee shall submit a construction permit application to Health Department to make the new fuel consumption cap federally enforceable.

[Air Construction Permit : 0990354-009-AC]

III.A.2 Authorized Fuel:

The permittee is authorized to use only diesel fuel that meets the following requirements of 40 CFR 80.510(b).

- (1) *Maximum Sulfur content of 15 ppm.*
- (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 and Rule 62-210.200(PTE), F.A.C.]

III.A.3 Hours of Operation: The permittee is authorized to operate the emissions units continuously without prior authorization from the Permitting Authority in accordance with **Condition III.A.1** of this permit.

[Air Construction Permit: 0990354-009-AC]

III.A.4 40 CFR 63 Subpart ZZZZ Applicability: The permittee shall comply with the applicable regulations, emission limitations and operating limitations of 40 CFR Part 63 Subpart ZZZZ. Appendix ZZZZ and Appendix 40 CFR 63 Subpart A are part of this permit. **[40 CFR 63.6585, 40 CFR 63.6590(1) & 40 CFR 63.6595(a)(1)]**

III.A.5 Operating Limitation for catalyst at pump engines: The permittee shall meet the following operating limitation

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection A. Pump Engines

- (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 engine’s exhaust so that the catalysts inlet temperature is greater than or equal to 450 degrees F and less than or equal to 1350 degrees F. **[40 CFR 63.6603 (a) and Table 2B of 40 CFR 63 Subpart ZZZZ]**

III.A.6 Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. **[Rule 62-297.310(2), F.A.C.]**

EMISSIONS STANDARDS

III.A.7 Emission Limitations for Pump Engines: The permittee shall meet the following requirements, except during periods of startup:

- (a) Limit concentration of carbon Monoxide (CO) in the exhaust to 23 ppmvd at 15% Oxygen (O₂); **or**
- (b) Reduce CO Emissions by 70% percent or more.

[Rule 40 CFR 63.6603(a)]

TESTING REQUIREMENTS

III.A.8 Initial Compliance Tests:

- (a) The permittee shall conduct the initial performance test as specified in the table below within 180 days after the compliance date.

[40 CFR 63.6612 (a)]

Table 4 of Subpart ZZZZ of Part 63 -- ‘Requirements for the Performance Test’:

For each	Complying with the requirement to	Permittee must	Using	According to the following requirements
CI stationary RICE	Reduce CO emissions	i. Measure the O ₂ at the inlet and outlet of the control device; and	(1) Portable CO and O ₂ analyzer	(a) Using ASTM D6522–00 (2005) ^a (incorporated by reference, see 40 CFR 63.14). 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	(1) Portable CO and O ₂ analyzer	(a) Using ASTM D6522–00 (2005) ^{a,b} (incorporated by reference, see §63.14) or Method 10 of 40 CFR appendix A. The CO concentration must be at 15 percent O ₂ , dry basis.

^aThe Permittee may also use Methods 3A and 10 as options to ASTM–D6522–00 (2005). The Permittee may obtain a copy of ASTM–D6522–00 (2005) from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106. ASTM–D6522–00 (2005) may be used to test both CI and SI stationary RICE.

^bThe permittee may also use Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03.

- (b) The Permittee is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (1) through (4) of this section.

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection A. Pump Engines

- (1) The test must have been conducted using the same methods specified in 40 CFR 63 Subpart ZZZZ, and these methods must have been followed correctly.
- (2) The test must not be older than 2 years.
- (3) The test must be reviewed and accepted by the Department.
- (4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

[40 CFR 63.6612 (b)]

{Permitting Note: The initial performance test for CO was conducted on 08/29/2013 and 2nd test on 06/19/2015}

III.A.9 Subsequent Performance Test: The permittee shall conduct subsequent performance tests as specified in **Specific Condition III.A.8** of this section every 8,760 hours or 3 years, whichever comes first. **[40 CFR 63.6615]**

III.A.10 Test Methods: Required tests shall be performed in accordance with the following reference methods. Only include applicable test methods.

Method	Description of Method and Comments
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}

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

III.A.11 Performance Test Procedure: The permittee shall use the following performance test procedure

[40 CFR 63.6620]:

- (a) Each performance test must be conducted according to the requirements specified in **Specific Conditions III.A.8 and III.A.9**. 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)]
- (b) The permittee must conduct three separate test runs for each performance test required in this permit. Each test run must last at least 1 hour [40 CFR 63.6620(d)].
- (c) (1) The Permittee must use Equation 1 (below) to determine compliance with the percent reduction requirement **[40 CFR 63.6620(e)(1) & (2)]:**

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

Where:

C_i = concentration of carbon monoxide (CO) at the control device inlet,

C_o = concentration of CO at the control device outlet, and

R = percent reduction of CO emissions

- (2) The Permittee must normalize the carbon monoxide (CO) concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO₂). If pollutant concentrations are to be corrected to 15 percent oxygen and CO₂ concentration is measured in lieu

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection A. Pump Engines

of oxygen concentration measurement, a CO₂ correction factor is needed. Calculate the CO₂ correction factor as described below **[40 CFR 63.6620 (e)(2)(i) through (iii)]**

(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:

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

Where:

F_o= Fuel factor based on the ratio of oxygen volume to the ultimate CO₂ volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is oxygen, percent/100.

F_d= Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm³ /J (dscf/10⁶ Btu).

F_c= Ratio of the volume of CO₂ produced to the gross calorific value of the fuel from Method 19, dsm³ /J (dscf/10⁶ Btu).

(ii) Calculate the CO₂ correction factor for correcting measurement data to 15 percent oxygen, as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \quad (\text{Eq. 3})$$

Where:

X_{CO₂}= CO₂ correction factor, percent.

5.9 = 20.9 percent O₂-15 percent O₂, the defined O₂ correction value, percent.

(iii) Calculate the NO_x and SO₂ gas concentrations adjusted to 15 percent O₂ using CO₂ as follows:

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

Where:

%CO₂= Measured CO₂ concentration measured, dry basis, percent.

(d) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report:

- (1) the engine model number,
- (2) the engine manufacturer,
- (3) the year of purchase,
- (4) the manufacturer's site-rated brake horsepower,
- (5) the ambient temperature, pressure, and humidity during the performance test, and
- (6) All assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained.
- (7) If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

[40 CFR 63.6620]

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection A. Pump Engines

MONITORING REQUIREMENTS

III.A.12 Control Technology Monitoring: The permittee shall monitor and maintain diesel oxidation catalyst (DOC) at each of the six 1600 BHP engines to reduce the CO emissions to 23 ppmv @ 15% O₂ or by 70% or more as required by 40 CFR 63 Subpart ZZZZ. **[Air Construction Permit :0990354-007-AC]**

III.A.13 Installation Requirements: The permittee that owns or operates an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, must comply with either paragraph (a) or paragraph (b) of this specific condition. The permittee 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. **[40 CFR 63.6625 (g)]**

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

(b) 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.

III.A.14 Operation Requirements: The permittee 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 are applicable, as specified in **Specific Condition III.A.7. [40 CFR 63.6625(h)]**

III.A.15 Special Compliance Tests: When the Health Department, 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 Rule 62-210, 62-212, 62-296, or 62-297, F.A.C. or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the facility to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions units and to provide a report on the results of said tests to the Health Department. **[Rule 62-297.310(8)(c), F.A.C.]**

{Permitting Note: The emissions units have been exempted from the NO_x-RACT requirements of Rule 62-296.570(4)(b)7., F.A.C. by the Florida Department of Environmental Protection in a letter dated December 13, 1996 from FDEP. In addition, the emissions units have avoided the requirements of BACT of Rule 62-212.300(5)(c), F.A.C. by accepting a federally enforceable cap on annual fuel oil usage. The Health Department reserves the right to request a special compliance test for emissions of nitrogen oxides in the event new data indicates that potential emissions would exceed 250 tons per year. The facility's current potential NO_x emissions are 235.12 tons per year, based on the NO_x emission factor of 3.85 lb/MMBtu}

III.A.16 Annual Fuel Consumption: The permittee shall monitor compliance with the annual fuel consumption limit on a monthly basis. If the rolling 12-month total does not exceed **709,000 gallons** (80% of the fuel oil consumption cap), the permittee shall continue to monitor fuel consumption on a monthly basis (rolling 12-month total). If the rolling 12-month total exceeds **709,000 gallons**, the permittee shall monitor fuel consumption on a daily basis (rolling 365-day total). When the rolling 365-day total does not exceed **709,000 gallons** for 30 consecutive days, monthly monitoring can be resumed. **[Permit No. 0990354-009-AC]**

III.A.17 NO_x Emissions Factor Verification: The NO_x emission factors used to establish the fuel consumption cap (cap factors) shall be verified by stack testing of at least one of the three (3) 800 horsepower pump engines. **During the year prior to renewal of the Title V operation permit**, the permittee shall submit a proposed testing protocol for approval by the Department of Health Palm Beach County. The proposed testing protocol shall address the following items:

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection A. Pump Engines

- a) proposed test date
- b) sampling locations
- c) the total number of tests per engine
- d) the duration of each test run
- e) operating parameters during testing (i.e. engine operating loads, heat input monitoring)
- f) testing methods
- g) quality assurance provisions
- h) data analysis procedures

The Department of Health Palm Beach County will evaluate all the data collected from the emission factor verification tests in order to establish the minimum emission monitoring requirements (i.e. frequency, testing methodology, etc.) that will be incorporated into the Title V operating permit renewal. The minimum emission monitoring requirements shall provide reasonable assurance that the potential emissions of nitrogen oxides from this facility do not exceed the PSD synthetic minor threshold of 250 tpy under any operating conditions (i.e. operating load, fuel type, etc.).

None of the emission factor verification requirements shall apply to the emergency generators.

{Permitting Note: Facility conducted NOx emissions test on March 28, 2017 and the resultant NOx was 3.85 lb/mmBtu. To provide additional assurance, the facility requested facility-wide fuel cap reduction cap from 912,591 gallons to 885,660 gallons per any consecutive 12 months (Rolling) total to limit NOx emissions to 235.12 TPY, which is below the major source threshold for PSD applicability (250 TPY)}

[Air Construction Permit: 0990354-009-AC]

CONTINUOUS COMPLIANCE

{Permitting Note: Permittee demonstrated initial compliance with CO emissions limit on 08/29/2013 and 2nd test on 06/19/2015}

- III.A.18** The permittee shall be in compliance with the emissions limitation as required in the **Specific Condition III.A.7.** and operating limitation as required in the **Specific Condition III.A.5.** at all times. **[40 CFR 63.6605 (a)]**
- III.A.19** At all times the permittee shall 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. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **[40 CFR 63.6605 (b)]**
- III.A.20** The permittee shall report each instance in which the emissions unit did not meet each emission limitation or operating limitation specified in the permit. These instances are deviations from the emission and operating limitations specified in the permit. These deviations must be reported according to the requirements in the **Specific Condition III.A.21.** If the permittee changes the catalyst, the permittee shall reestablish the values of the operating parameters measured during the initial performance test. When reestablishing the values of the operating parameters, the permittee shall also conduct a performance test to demonstrate that the emissions unit is meeting the required emission limitation. **[40 CFR 63.6640 (b)]**

The permittee must also report each instance in which the emissions unit did not meet the requirements in Table 8 of Subpart ZZZZ of CFR Part 63 (Appendix ZZZZ). **[40 CFR 63.6640(e)]**

NOTIFICATION REQUIREMENTS

- III.A.21** Notification of Performance Tests: The permittee shall notify the Health 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

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection A. Pump Engines

allow the Health Department, upon request, to review and approve the site-specific test plan and to have an observer present during the test. [40 CFR 63.6645 (a) & 40 CFR 63.7 (b)(1)]

III.A.22 In the event the permittee is unable to conduct the performance test on the date specified in the notification requirement specified in **Specific Condition III.A.20.** due to unforeseeable circumstances beyond his or her control, the permittee must notify the PBCHD as soon as practicable and without delay prior to the scheduled performance test date and specify the date when the performance test is rescheduled. This notification of delay in conducting the performance test shall not relieve the permittee of legal responsibility for compliance with any other applicable provisions of this part or with any other applicable Federal, State, or local requirement, nor will it prevent the PBCHD from implementing or enforcing this part or taking any other action under the Act. [40 CFR 63.6645 (a) & 40 CFR 63.7 (b)(2)]

III.A.23 Notification of Compliance Status: The Notification of Compliance Status, including the performance test results, shall be mailed before the close of business on the 60th day following the completion of the relevant compliance demonstration activities (such as initial performance test or any subsequent required performance test). Notifications may be combined as long as the due date requirement for each notification is met. [40 CFR 63.6645 (h)]

REPORTING AND RECORDKEEPING REQUIREMENTS

III.A.24 Record Keeping Requirements:

- (a) For monthly fuel consumption monitoring -- the rolling 12-month total does not exceed 709,000 gallons (80% of the fuel consumption cap): Within the first 15 days of each month, the permittee shall record in a written log the following information:
- (1) Gallons of diesel fuel consumed for the previous month of operation;
 - (2) Gallons of diesel fuel consumed for the previous consecutive 12 months 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 (the rolling 12-month total does exceed 709,000 gallons): Once per day, the permittee shall record in a written log the following information:
- (1) Gallons of diesel fuel consumed for the that 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 that day of operation. [Permit No. 0990354-009-AC]

III.A.25 The permittee shall maintain the recordkeeping for the following items listed below. The recordkeeping shall be maintained in a form suitable and readily available for expeditious inspection and review for the followings. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report of record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.6655(a) & (d)]

- (a) A copy of each notification and report submitted to comply with the emission and operating limitations, including all documentation supporting any Initial Notification or Notification of Compliance Status.
- (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.
- (d) Records of all required maintenance performed on the air pollution control and monitoring equipment.
- (e) Records of actions taken during periods of malfunction to minimize emissions in accordance with **Specific Condition III.A.19** including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection A. Pump Engines

(f) The permittee must keep records required in Table 6 of the Subpart ZZZZ (see Appendix ZZZZ) to show continuous compliance with each emission or operating limitations that applies.

III.A.26 Reporting Requirements: The Permittee shall submit Semiannual Compliance Report, as required in Table 7 of 40 CFR Part 63 Subpart ZZZZ, containing the following information:

- (a) If there are no deviations from any emission limitations or operating limitations that apply to the emissions units, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period.
- (b) If the emissions units had a deviation from any emission limitation or operating limitation during the reporting period, the report shall contain following information:
 - (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) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
 - (5) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
- (c) If the emissions unit 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 the permittee 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. **[40 CFR 63.6650(a), (c), (d)]**

III.A.27 The permittee shall submit each report required in **Specific Condition III.A.26** by the date as specified below:

- (a) For semiannual Compliance reports, 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 31.
- (b) For semiannual Compliance reports, 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.

[40 CFR 63.6650(b)]

{Permitting Note: The permittee demonstrated compliance with the initial semi-annual report submission}

III.A.28 The permittee must report all deviations as defined in the 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 the permittee submits a Compliance report pursuant to Table 7 of the 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 this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation permittee may have to report deviations from permit requirements to the Department

III.A.29 Performance Tests Results: The performance test results shall be mailed as a part of Notification of Compliance Status, as specified in **Specific Condition III.A.23** of this permit, before the close of business on the 60th day following the completion of the relevant performance tests. **[40 CFR 63.6645(h)]**

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection B. Emergency Generators (Cummins Onan)

This section of the permit addresses the following emissions units.

EU ID No.	Status	Brief Description
002	Regulated	Two 380-BHP emergency generators - These are diesel engines powering Cummins Onan emergency electrical generators. The emergency generators are capable of combusting distillate oil only.

Two (2) Onan Generator Sets each generator is powered by two 380-BHP Cummins engine firing ultra-low sulfur distillate oil. These generators were manufactured in 1959, which is way before the cut-off date July 11, 2005 and hence are not subject to 40 CFR part 60 Subpart IIII "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines."

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

PERFORMANCE RESTRICTIONS

III.B.1 Permitted Capacity: The permittee shall not allow, cause, suffer or permit the operation of the unit in excess of the following without prior authorization from the Permitting Authority:

(a) **Annual Fuel Consumption:** The permittee shall comply with the annual fuel consumption requirement specified in the **Section II, FW12** of this permit.

[Rule 62-210.200(PTE), F.A.C.]

III.B.2 Authorized Fuel:

The permittee is authorized to use only diesel fuel with sulfur content not exceeding 15 ppm.

[Air Construction Permit: 0990354-009-AC]

III.B.3 Hours of Operation: The permittee shall not operate each emergency generator for more than **1000 hours per year**. **[Air Construction Permit: 0990354-009-AC]**

III.B.4 40 CFR 63 Subpart ZZZZ Applicability: The permittee shall comply with the applicable regulations, emission limitations and operating limitations of 40 CFR Part 63 Subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines." Appendix ZZZZ and Appendix 40 CFR 63 Subpart A are part of this permit. **[40 CFR 63.6585, 40 CFR 63.6590(1) & 40 CFR 63.6595(a)(1)]**

EMISSIONS STANDARDS

III.B.5 Emission Limitations: The permittee shall meet the following requirement, except during the periods of startup:

- (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (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.

{Permitting note(s): 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 shown above, 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 must 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), Table 2d to Subpart ZZZZ of Part 63]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection B. Emergency Generators (Cummins Onan)

III.B.6 The permittee has the option to utilize an oil analysis program as described herein in order to extend the specified oil change requirement in the **Specific Condition III.B.5(a)** of this permit. The oil analysis must be performed at the same frequency specified for changing the oil in this permit. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent 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 water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee 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 permittee must change the oil within 2 days or before commencing operation, whichever is later. The permittee 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 REQUIREMENTS

III.B.7 The permittee shall develop a 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. **[40 CFR 63.6625(e)]**

III.B.8 The permittee shall install a non-resettable hour meter if one is not already installed. **[40 CFR 63.6625(f)]**
{Permitting Note: Permittee installed a non-resettable hour meter at each of the engines}

III.B.9 The permittee 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 as specified in the **Specific Condition III.B.5** of this permit. **[40 CFR 63.6625(h)]**

CONTINUOUS COMPLIANCE

III.B.10 The permittee shall be in compliance with the emissions limitation as required in the **Specific Condition III.B.5** at all times. **[40 CFR 63.6605 (a)]**

III.B.11 At all times the permittee shall 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. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **[40 CFR 63.6605 (b)]**

III.B.12 The permittee must operate the emergency stationary RICE according to the requirements in paragraphs (1) through (4) of this condition. In order for the engine to be considered an emergency stationary RICE under this subpart, 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 (1) through (4) of this condition, is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (1) through (4) of this condition, the engine will not be considered an emergency engine under 40 CFR 63 Subpart ZZZZ and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection B. Emergency Generators (Cummins Onan)

(2) The permittee may operate the emergency stationary RICE for any combination of the purposes specified in paragraphs (2)(i) through (iii) of this condition for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (3) and (4) of this condition counts as part of the 100 hours per calendar year allowed by this paragraph (2).

(i) Emergency stationary 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 permittee 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 permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

(ii) **Not applicable**

(iii) **Not applicable**

{Permit Note: On May 2, 2016, 40 CFR 63.6640 (f)(2)(ii)-(iii) was vacated in the U.S. Court of Appeals District Of Columbia Circuit Court.}

(3) **Not applicable**

(4) These generator engines 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(2) of this condition. Except as provided in paragraphs (4)(i) and (ii) of this condition, 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) **Not applicable**

(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. **[40 CFR 63.6640(f)]**

III.B.13 The permittee shall report each instance in which the emissions unit did not meet each emission limitation or operating limitation specified in the permit. These instances are deviations from the emission and operating limitations specified in the permit. These deviations must be reported according to the requirements in the **Specific Condition III.B.14** If the permittee changes the catalyst, the permittee shall reestablish the values of the operating parameters measured during the initial performance test. When reestablishing the values of the operating parameters, the permittee shall also conduct a performance test to demonstrate that the emissions unit is meeting the required emission limitation. **[40 CFR 63.6640 (b)]**

REPORTING AND RECORDKEEPING REQUIREMENTS

III.B.14 The permittee shall maintain the recordkeeping for the following items listed below. The recordkeeping shall be maintained in a form suitable and readily available for expeditious inspection and review for the followings. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report of record. At a minimum, the most recent 2 years of data shall be retained on site. The

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

Subsection B. Emergency Generators (Cummins Onan)

remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

- (a) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. **[40 CFR 63.6655(a)(2)]**
- (b) Records of all required maintenance performed on the air pollution control and monitoring equipment. **[40 CFR 63.6655(a)(4)]**
- (c) Records of actions taken during periods of malfunction to minimize emissions in accordance with Specific **Condition III.B.13**, 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)(5)]**

III.B.15 The permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to the maintenance plan. **[40 CFR 63.6655(e)]**

III.B.16 The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee 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 permittee 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(f) and Rule 40 CFR 60.4214]**

III.B.17 The permittee shall keep records of the amount of fuel consumed by the generators on a monthly basis. The permittee shall follow the frequency of maintaining the fuel consumption records as required in the **Specific Condition III.A.24** of this permit. The permittee shall take the fuel consumed by the generators into account in demonstrating compliance with the **Section II Condition FW12** of this permit. **[Rule 62-4.070(3), F.A.C.]**

SECTION 4. APPENDICES

Appendix A, Abbreviations, Acronyms, Citations and Identification Numbers.

Appendix I, List of Insignificant Emissions Units and/or Activities.

Appendix RR, Facility-wide Reporting Requirements.

Appendix TR, Facility-wide Testing Requirements.

Appendix TV, Title V General Conditions.

Appendix 40 CFR 63 Subpart A, Emissions Standards for Hazardous Air Pollutants for Stationary Categories, Subpart A – General Provisions

Appendix ZZZZ, 40 CFR Part 63 Subpart ZZZZ “National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)”

Referenced Attachments. *At End*

Appendix H, Permit History.

Statement of Basis (SOB)