FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Southeast District Office
400 North Congress Avenue, 3rd Floor
West Palm Beach, Florida 33401
561-681-6600

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

August 16, 2013

NOTICE OF FEDERALLY ENFORCEABLE STATE AIR OPERATION PERMIT

Sent by Electronic Mail – Received Receipt Requested
tkarda@broward.org

Permittee:

Broward County Water & Wastewater Services
North Regional Wastewater Treatment Plant
2555 West Copans Road
Pompano Beach, FL 33069

Authorized Representative:

Mr. Terry Karda, Division Director

Dear Mr. Karda:

Enclosed is an Operation Permit No. 0112357-013-AF for the operation of a source of air pollution located in Broward County. This permit is issued pursuant to Chapter 403.087 of the Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code.

A person whose substantial interests are affected by the Department's permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2241). Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this final permit. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this final permit. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available for this action.

Any party to this Order (Permit) has the right to seek judicial review pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure with the Department at the address listed below and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Order (Permit) is filed with the Clerk of the Department.

Executed in West Palm Beach, Florida

08-16-2013

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

Date

JSC/JKS/JL/lh /sdt

CERTIFICATE OF SERVICE

The undersigned duly designated agency clerk hereby certifies that the Notice of Permit and the Final Permit were sent by electronic mail (with received receipt) before the close of business on 08/16/2013 to the permittee.

Mr. Terry Karda, Division Director BCWWS: tkarda@broward.org

In addition, the undersigned duly designated deputy agency clerk hereby certifies that copies of these documents were sent by electronic mail (with received receipt) on the same date to the following persons:

Ms. Marlice Sealey, Natural Resource Specialist BCWWOD: msealey@broward.org

Mr. Ralph Aliseo, Plant Superintendent, BCWWOD: raliseo@broward.org

Mr. John Paniccia, BCWWOD jpaniccia@broward.org

Mr. Joe Lurix, FDEP, PA: joe.lurix@dep.state.fl.us

Clerk Stamp

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

(Clerk)

08/16/2013
(Date)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Southeast District Office
400 North Congress Avenue, 3rd Floor
West Palm Beach, Florida 33401
561-681-6600

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

August 16, 2013

FEDERALLY ENFORCEABLE STATE AIR OPERATION PERMIT

Sent by Electronic Mail – Received Receipt Requested
tkarda@broward.org

ISSUED TO:

Broward County Water and Wastewater Services
North Regional Wastewater Treatment Plant
2555 West Copans Road
Pompano Beach, FL 33069

ARMS No.: 0112357
Permit No: 0112357-013-AF
Issued: August 16, 2013
Expires: August 15, 2018

Authorized Representative
Mr. Terry Karda, Division Director

A renewal application must be submitted by: June 16, 2018

LOCATED AT: 2555 West Copans Road, Pompano Beach, Florida 33069

PROJECT DESCRIPTION: FESOP Renewal for the Broward County North Regional Wastewater Treatment Plant
SIC: Wastewater Treatment Plant (SIC # 4952)

UTM/ Lat-Long: Zone 17; 583.49 Km. E; 2905.01 Km. N ″ Lat. 26° 15' 50" N Long 80° 09' 20" W

STATEMENT OF BASIS:

The Department of Environmental Protection Southeast District Office issues this permit under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rules 62-4, and 62-204 through 62-297, and in conformance with all existing regulations of the Florida Department of Environmental Protection. The above named owner or operator is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department, in accordance with the terms and conditions of this permit.

Sincerely,

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

08-16-2013
Date

JSC/JKS/JL/lh /sdt

SECTION I -- SUMMARY INFORMATION

PERMIT HISTORY

- Permit No. 0112357-002-AF issued August 27, 1998.
- Permit No. 0112357-003-AC issued January 12, 2001.
- Permit No. 0112357-004-AF issued June 13, 2001. (Permit Revision)
- Permit No. 0112357-005-AF issued November 29, 2001. (Permit Revision)
- Permit No. 0112357-006-AF issued November 12, 2003.
- Permit No. 0112357-007-AC issued May 11, 2005.
- Permit No. 0112357-008-AF issued May 11, 2005.
- Permit No. 0112357-009-AC issued June 26, 2006.
- Permit No. 0112357-010-AC, Permit Etx. Issued April 24, 2007.
- Permit No. 0112357-011-AC, Permit Etx. Issued April 21, 2008.
- Permit No. 0112357-012-AF issued November 7, 2008.
- Application for air operation permit renewal received April 30, 2013.

PERMIT CONTENT

- Section I: Summary Information
- Section II: Facility-Wide Specific Conditions
- Section III: Emissions Unit Specific Conditions
- Section IV: Appendices
  - *Appendix A*: Abbreviations, Acronyms, Citations and Identification Numbers
  - *Appendix B*: General Permit Conditions

REGULATORY CLASSIFICATIONS

Title III:	The facility is not a major source of hazardous air pollutants (HAP)
Title IV:	The facility does not operate any units subject to the acid rain provisions of the Clean Air Act.
Title V:	The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
PSD:	The facility is not a PSD major source in accordance with Rule 62-212.400 F.A.C.
RACT:	The facility is not subject to any RACT requirements.

EMISSIONS UNIT SUMMARY

EMISSIONS UNIT NO.	EMISSIONS UNIT DESCRIPTION	
001	Liquid Process Units and Solid Handling Process	Active/Unregulated
002	Eight (8) Iron Fireman boilers model No. 36-45-345 fired with digester gas from anaerobic digesters.	Active/Regulated
003	Six (6) Diesel-Fired Emergency Power Generators – Each generator set is rated for 2,000 kilowatts and provide emergency power to the facility during power interruptions including contractual load sharing events. Generators 1, 2, and 3 were replaced in June 2010 and are certified to comply with provisions of 40 CFR Part 63 Subpart ZZZZ. Generators 4, 5, and 6 were installed in June 2001 and are not certified to comply with provisions Subpart ZZZZ. Generator No. 4 is currently out of service and is scheduled to be replaced.	Active/Regulated
004	Two (2) Digester gas flares.	Active/Regulated

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

Conditions in this part generally apply to all emission units and activities covered under this permit.

Administrative Requirements

1.1 Regulating Agencies: All applications, tests, reports, notifications, or other submittals required by this permit shall be submitted to the Florida Department of Environmental Protection, Southeast District Office, street address 400 North Congress Avenue, 3rd Floor, West Palm Beach, Florida, 33401-2913, (phone 561-681-6600 Fax 561/681-6755).

1.2 Citation Format: In this permit, references to F.A.C. Rule 62-xxx refer to rules promulgated under Title 62 of the Florida Administrative Code; references (if any) to 40 CFR 60.xx (or 61.xx or 63.xx) refer to regulations codified under Part 60 (or 61 or 63) of Title 40 of the Code of Federal Regulations.

1.3 Specific and General Conditions: The owner or operator shall be subject to the specific conditions of this permit and the owner or operator shall be aware of, and operate under, the attached General Conditions, attached as Appendix A of this permit. General Conditions are binding and enforceable pursuant to Chapter 403, F.S. [Rule 62-4.160, F.A.C.]

1.4 Applicable Regulations: This facility is subject to regulation of Florida Administrative Code (F.A.C.) Rules 62-4 and 62-204 through 62-297, and 40 CFR 60. **Issuance of this permit does not relieve the facility owner or operator from compliance with any other applicable federal, state or local permitting requirements or other regulations.**

1.5 Other Permits: This air pollution permit does not preclude the owner or operator from obtaining any other types of required permits, licenses or certifications from this Department or other departments or agencies.

1.6 Renewal of This Permit Required: An application for renewal of this operation permit must be submitted to the Department of Environmental Protection, Southeast District Office, Air Program at least 60 days prior to the expiration date of this permit. To apply for an operation permit, the applicant shall submit the appropriate application form in quadruplicate, the appropriate application fee, all required compliance test results, and such additional information as the Department may by law require. [Rules 62-4.030, 62-4.050, and 62-4.220, F.A.C.]

General Pollutant Emission Limiting Standards

2.1 Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]

{Permitting note: Objectionable odor is defined as 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}.

2.2 General Visible Emissions Standard: Unless otherwise specified by permit or rule, 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 20 percent opacity. [Rule 62-296.320(4)(b), F.A.C.]

2.3 Volatile Organic Compounds/Organic Solvents Emissions: No person shall 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.]

Such controls include the following:

- Tightly cover or close all VOC containers when they are not in use.
- Tightly cover all open tanks that contain VOCs when they are not in use.
- Maintain all pipes, valves, fittings, etc., which handle VOCs in good operating condition.

- Confine rags used with VOCs to tightly closed, fireproof containers when not in use.
- Immediately confine and clean up VOC spills and make sure wastes are placed in closed containers for reuse, recycling or proper disposal.

2.4 Unconfined Emissions of 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. [Rule 62-296.320(4)(c), F.A.C.]

Reasonable precautions include the following:

a. Paving and maintenance of roads, parking areas and yards.

b. Application of water or other dust suppressants to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.

c. Application of asphalt, water, or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.

d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.

e. Landscaping or planting of vegetation.

f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.

g. Confining abrasive blasting where possible.

h. Enclosure or covering of conveyor systems.

2.5 Nitrogen Oxide Emissions Cap: Emissions of nitrogen oxides from the entire facility shall not exceed 90.0 tons in any consecutive 12-month period.
[As Requested by Permittee to avoid Title V (see Permit No. 0112357-009-AC) & Rule 62-4.070(1), F.A.C.]

2.6 Fuel Consumption Limits: The owner or operator is authorized to burn a maximum of 300,000 gallons of diesel fuel in any 12-month rolling total.
[As Requested by Permittee, Rule 62-4.070(1), F.A.C.]

2.7 Hours of Operation: Each generator shall be limited to the following maximum hours of operation in any consecutive 12-month period:

Generator No.	Caterpillar Model #	Hours of Operation	NOx Emission Rates, (lbs/hr)
1	3516C	342	68.16
2	3516C	342	68.16
3	3516C	357	68.16
4	3516	364	86.88
5	3516	364	86.16
6	3516	357	68.16

[As Requested by Permittee to avoid Title V]

Operation Requirements

3.1 Circumvention: No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly. [Rule 62-210.650, F.A.C.]

3.2 Excess Emissions Requirements [Rule 62-210.700, F.A.C.]

a. Excess emissions resulting from start-up, shutdown or malfunction of these emissions units shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized, but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department of Environmental Protection for longer duration. [Rule 62-210.700(1), F.A.C.]

b. Excess emissions, which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented during start-up, shutdown, or malfunction, are prohibited. [Rule 62-210.700(4), F.A.C.]

c. In case of excess emissions resulting from malfunctions, the owner or operator shall notify the Air Section of the Southeast District Office of the Florida Department of Environmental Protection within one working day of: the nature, extent, and duration of the excess emissions; the cause of the problem; and the corrective actions being taken to prevent recurrence. [Rule 62-210.700(6), F.A.C.]

Compliance Testing Requirements

4.1 Test Notification: Unless otherwise specified in this permit, the Department of Environmental Protection, Southeast District Office Air Program shall be notified in writing of expected compliance test dates at least fifteen (15) days prior to compliance testing. The notification shall include the following information: the date, time, and location of each test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner. [Rule 62-297.340(1), F.A.C.]

4.2 Testing at Capacity: Compliance testing shall be conducted with the emission units operating at the permitted capacity (90 to 100% of the maximum permitted operation rate of the emission units). If an emissions unit is not tested at permitted capacity, the emission unit shall not be operated above 110% of the test load until a new test showing compliance is conducted. Operation of the emissions unit above 110% of the test load is allowed for no more than 15 days for the purpose of conducting additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]

4.3 Special Compliance Tests: When the 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 in Rules 62-204 through 62-297 or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]

Reporting and Record Keeping Requirements

5.1 Report Excess Emissions: In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. (condition 5.2 below). A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

5.2 Report Plant Operation Problems: If the owner or operator is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the owner or operator shall immediately notify the Department. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the owner or operator from any liability for failure to comply with Department rules. [Rule 62-4.130, F.A.C.]

5.3 Retain Records: All records required by this permit shall be kept by the owner or operator and made available for Department inspection for a minimum of five (5) years from the date of such records. [Rule 62-4.070(3), F.A.C. & 62-210.370(2)(h)]

5.4 Compliance Test Reports: Compliance test reports shall be submitted to the Department of Environmental Protection, Southeast District Office, Air Compliance Section, as soon as practical, but no later than 45 days after the last sampling run of each test is completed.

Test reports shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

a. The type, location, and designation of the emissions unit tested.
b. The facility at which the emissions unit is located.
c. The owner or operator of the emissions unit.
d. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
e. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
f. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
g. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
h. The date, starting time and duration of each sampling run.
i. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
j. The number of points sampled and configuration and location of the sampling plane.
k. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
l. The type, manufacturer and configuration of the sampling equipment used.
m. Data related to the required calibration of the test equipment.
n. Data on the identification, processing and weights of all filters used.
o. Data on the types and amounts of any chemical solutions used.
p. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
q. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
r. All measured and calculated data required to be determined by each applicable test procedure for each run.
s. The detailed calculations for one run that relate the collected data to the calculated emission rate.
t. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
u. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rules 62-297.310(8)(a), (b) & (c), F.A.C. & Permit No. 0112357-009-AC]

5.5 Annual Report Required: On or before April 1st of each calendar year, a completed DEP Form 62-210.900(5), Annual Operating Report (AOR) Form for Air Pollutant Emitting Facility shall be submitted to the Department of Environmental Protection Southeast District Office, if the report is submitted using the Department's electronic annual operating report software, there is no requirement to submit a hard copy to the district office. [Rule 62-210.370(3)(c), F.A.C.]

Section III-A – Emissions Unit 001

This part of this permit addresses the following emission unit:

EU No.	Emissions Unit Description	
001	Liquid Process Units and Solids Handling Process	Active/Unregulated

The liquid process includes headwork, aeration tanks, secondary clarifiers, and chlorine contact basins. The solid process includes grit handling, odor control scrubbers, sludge concentration tanks, and primary and secondary anaerobic digesters.

Emission Limiting Standards and Operation

A.1 There are no specific emission limiting standards for emission unit 001

A.2 This emissions unit has a maximum production rate of 95 million gallons per day and uses a gas scrubber for odor control.

A.3 This emissions unit may operate continuously.

Section III-B – Emissions Unit 002

This part of this permit addresses the following emission unit:

EU No.	Emissions Unit Description	
002	Eight (8) Iron Fireman Boilers model No. 36-45-345 fired with digester gas from anaerobic digesters.	Active/Regulated

Essential Potential to Emit (PTE) Parameters

B.1. Fuel Consumption Limits: Fuel burned by the boilers shall be limited to digester gas only.

[Requested by applicant on the application received on December 22, 2004]

Emission Limitations and Operating Requirements

B.2. This emissions unit may operate continuously.

Compliance

B.3 Fuel Consumption & Hours of Operation. The owner or operator shall monitor digester gas consumption by the referenced emission units

Reporting Recordkeeping Requirements

B.4. Monthly Records: The owner/operator shall maintain monthly records to demonstrate compliance with Specific Conditions 2.5 of Section I of this permit. The records shall be completed no later than the 30th day following each month that the record is required to be maintained. The monthly records shall include the following:

a. Total digester gas fired in all the boilers (cubic feet) per month;
b. Monthly nitrogen oxide emissions (tons) from all the boilers; and
c. Consecutive 12-month total of the nitrogen oxide emissions from the all the boilers.
[Rule 62-4.070(3), F.A.C.]

B.5 Annual Report Required: On or before March 1 of each calendar year, a completed DEP Form 62-210.900(5), Annual Operations Report Form for Air Pollutant Emitting Facility, shall be submitted to the Department of Environmental Protection, Southeast District Office, Air Program.
[62-210.370(3), F.A.C.]

B.6 AOR Supplemental Information: The Annual Operating Report shall include the following supplemental information that was recorded in the previous year calendar year:

a. The highest percent sulfur content (by weight) of diesel fuel received
b. The highest 12-month rolling total hours of operation for each unit.
[Rule 62-4.070(3)3, F.A.C.]

B.7. Retain Records: All records required by this permit shall be kept by the owner or operator and made available for Department inspection for a minimum of five (5) years from the date of such records.
[Rule 62-4.070(3), F.A.C. & 62-210.370(2)(h)]

Section III-C – Emissions Unit 003

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

EU No.	Emissions Unit Description		
003	Six (6) Diesel-Fired Emergency Power Generators – Each generator set is rated for 2,000 kilowatts and provide emergency power to the facility during power interruptions including contractual load sharing events. Generators 1, 2, and 3 were replaced in July 2010 and are certified to comply with provisions of 40 CFR Part 63 Subpart ZZZZ. Generators 4, 5, and 6 were installed in June 2001 and are not certified to comply with provisions Subpart ZZZZ. Generator No. 4 is currently out of service.		Active/Regulated
	Generator No.	**Caterpillar Model #**	
	1	3516C	
	2	3516C	
	3	3516C	
	4	3516	
	5	3516	
	6	3516	

The following table provides important details for this emission unit:

Engine Identification	Engine Brake HP	Date of Construction	Model Year	Displacement liters/cylinder (l/c)	Engine Manufacturer	Model No.
EU003 Generator Nos. 1-3	3,622 (2,710 kW)	07/2010	2009	4.312	CAT	3516C
EU003 Generator Nos. 4-6	2847 (2,000 kW)	06/2001	2000	4.312	CAT	3516

*{Permitting Note for Generators 1-3: These CI RICE are regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE and 40 CFR 60, Subpart IIII, NSPS for Stationary Compression Ignition RICE, adopted in Rules 62.204.800(11)(b) & (8)(b), F.A.C., respectively. This RICE is not a fire pump. This is a "**new**" stationary **non-emergency** CI RICE with a displacement of less than 10 liters per cylinder, located at an area source of HAP, that has been modified, reconstructed or commenced construction on or after 6/12/2006, and that has a post-2007 model year. In accordance with provisions of 40 CFR 63.6590(c)(6), meeting the requirements of 40 CFR 60, Subpart IIII, satisfies compliance with the requirements of Subpart ZZZZ.*

*Permitting Note for Generators 4-6: These CI RICE are regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE and 40 CFR 60, Subpart IIII, NSPS for Stationary Compression Ignition RICE, adopted in Rules 62.204.800(11)(b) & (8)(b), F.A.C., respectively. This RICE is not a fire pump. This is an "**existing**" stationary **emergency** CI RICE with a displacement of less than 10 liters per cylinder, located at an area source of HAP, that has been modified, reconstructed or commenced construction on or prior to 6/12/2006, and that has a prior to-2007 model year. The facility will have to apply to the department for permit to upgrade these generators for non-emergency use including demand response/load sharing/peak shaving as part of a financial arrangement with the local utility .*

Essential Potential to Emit (PTE) Parameters

C.1. Fuel Consumption Limits: Consumption of diesel fuel for the generators is limited to not more than 300,000 gallons in any 12-month rolling period.
[Requested by Permittee to avoid Title V and Rule 62-4.070(1), F.A.C.]

Emission Limitations and Operating Requirements

C2. Diesel Fuel Certification: The owner or operator shall demonstrate compliance with the fuel oil sulfur content limit for each shipment based on ASTM Methods D4057, D129-91, D2622-94, D4294-90, or the latest edition. The analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency. The owner or operator may comply with this requirement by receiving records from the fuel supplier that indicate the fuel delivered is undyed which is intended for highway use. The owner or operator shall also monitor the sulfur content of the digester gas in accordance with ASTM Methods.
[Rules 62-297.440(1), & 62-4.070(1), F.A.C.]

Compliance Monitoring

C.3 Nitrogen Oxide (NOx) Emissions: Compliance with the nitrogen oxides emissions limit specified in condition 2.5 of Section I shall be determined by calculation using the monthly hours of operation and the hourly emission rates (in the above table) unless more accurate data is available.
[Rule 62-4.070(3), F.A.C.]

C.4 Hours of Operation: The owner or operator shall equip each engine with an hour meter that records operating hours.
[Rule 62-4.070(1), F.A.C.]

Recordkeeping Requirements

C.5. Monthly Records: The owner/operator shall maintain monthly records to demonstrate compliance with Specific Conditions 2.5, 2.6, and 2.7 of Section I of this permit. The records shall be completed no later than the 30th day following each month that the record is required to be maintained. The monthly records shall include the following:

a. Monthly hours of operation of each engine;
b. Consecutive 12-month rolling total of hours of operation for each engine;
c. Monthly fuel consumption (gallons) for the engines;
d. Consecutive 12-month rolling total of fuel consumption (gallons) for the engines;
e. Fuel Certifications and/or Sulfur Analysis for each shipment;
f. Monthly nitrogen oxide emissions (tons) from all the engines; and
g. Consecutive 12-month total of the nitrogen oxide emissions (tons) from the all the engines.
[Rule 62-4.070(3), F.A.C. and Permit No. 0112357-009-AC]

C.6 Annual Report Required: On or before March 1 of each calendar year, a completed DEP Form 62-210.900(5), Annual Operations Report Form for Air Pollutant Emitting Facility, shall be submitted to the Department of Environmental Protection, Southeast District Office, Air Program.
[62-210.370(3), F.A.C.]

C.7. AOR Supplemental Information: The Annual Operating Report shall include the following supplemental information that was recorded in the previous year calendar year:

a. The highest percent sulfur content (by weight) of diesel fuel received
b. The highest 12-month rolling total hours of operation for each unit.
[Rule 62-4.070(3)3, F.A.C.]

C.8 Retain Records: All records required by this permit shall be kept by the owner or operator and made available for Department inspection for a minimum of five (5) years from the date of such records.
[Rule 62-4.070(3), F.A.C. & 62-210.370(2)(h)]

Section III - D– Emissions Unit 004

This part of this permit addresses the following emission unit:

EU No.	Emissions Unit Description	
004	Two (2) Digester gas flares	Active/Regulated

Essential Potential to Emit (PTE) Parameters

D.1. Fuel Consumption Limits: Fuel burned by the flares shall be limited to digester gas only. [Requested by applicant on the application received on December 22, 2004]

Emission Limitations and Operating Requirements

D.2. This emissions unit may operate continuously.

Compliance

D.3 Fuel Consumption & Hours of Operation. The owner or operator shall monitor digester gas consumption by the referenced emission units. [Rule 62-4.070(3), F.A.C.]

Reporting Recordkeeping Requirements

D.4. Monthly Records: The owner/operator shall maintain monthly records to demonstrate compliance with Specific Conditions 2.5 of Section I of this permit. The records shall be completed no later than the 30th day following each month that the record is required to be maintained. The monthly records shall include the following:

a. Total digester gas fired in the flares (Cubic Feet) per month;
b. Monthly nitrogen oxide emissions (tons) from the flares; and
c. Consecutive 12-month total of the nitrogen oxide emissions (tons) from the flares.

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

D.5 Annual Report Required: On or before March 1 of each calendar year, a completed DEP Form 62-210.900(5), Annual Operations Report Form for Air Pollutant Emitting Facility, shall be submitted to the Department of Environmental Protection, Southeast District Office, Air Program. [62-210.370(3), F.A.C.]

D.6 AOR Supplemental Information: The Annual Operating Report shall include the following supplemental information that was recorded in the previous year calendar year:

a. The highest percent sulfur content (by weight) of diesel fuel received
b. The highest 12-month rolling total hours of operation for each unit.

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

D.7. Retain Records: All records required by this permit shall be kept by the owner or operator and made available for Department inspection for a minimum of five (5) years from the date of such records. [Rule 62-4.070(3), F.A.C. & 62-210.370(2)(h)]

Abbreviations and Acronyms:

° F: degrees Fahrenheit

acfm: actual cubic feet per minute

AOR: Annual Operating Report

ARMS: Air Resource Management System (Department's database)

BACT: best available control technology

Btu: British thermal units

CAA: Clean Air Act

CAAA: Clean Air Act Amendments of 1990

CAM: compliance assurance monitoring

CEMS: continuous emissions monitoring system

cfm: cubic feet per minute

CFR: Code of Federal Regulations

CO: carbon monoxide

COMS: continuous opacity monitoring system

DARM: Division of Air Resources Management

DCA: Department of Community Affairs

DEP: Department of Environmental Protection

Department: Department of Environmental Protection

dscfm: dry standard cubic feet per minute

EPA: Environmental Protection Agency

ESP: electrostatic precipitator (control system for reducing particulate matter)

EU: emissions unit

F.A.C.: Florida Administrative Code

F.D.: forced draft

F.S.: Florida Statutes

FGR: flue gas recirculation

Fl: fluoride

ft^2: square feet

ft^3: cubic feet

gpm: gallons per minute

gr: grains

HAP: hazardous air pollutant

Hg: mercury

I.D.: induced draft

ID: identification

ISO: International Standards Organization (refers to those conditions at 288 Kelvin, 60% relative humidity and 101.3 kilopascals pressure.)

kPa: kilopascals

LAT: Latitude

lb: pound

lbs/hr: pounds per hour

LONG: Longitude

MACT: maximum achievable technology

mm: millimeter

MMBtu: million British thermal units

MSDS: material safety data sheets

MW: megawatt

NESHAP: National Emissions Standards for Hazardous Air Pollutants

NO_X: nitrogen oxides

NSPS: New Source Performance Standards

O&M: operation and maintenance

O_2: oxygen

ORIS: Office of Regulatory Information Systems

OS: Organic Solvent

Pb: lead

PM: particulate matter

PM_{10}: particulate matter with a mean aerodynamic diameter of 10 microns or less

PSD: prevention of significant deterioration

psi: pounds per square inch

PTE: potential to emit

RACT: reasonably available control technology

RATA: relative accuracy test audit

RMP: Risk Management Plan

RO: Responsible Official

SAM: sulfuric acid mist

scf: standard cubic feet

scfm: standard cubic feet per minute

SIC: standard industrial classification code

SNCR: selective non-catalytic reduction (control system used for reducing emissions of nitrogen oxides)

SOA: Specific Operating Agreement

SO_2: sulfur dioxide

TPH: tons per hour

TPY: tons per year

UTM: Universal Transverse Mercator coordinate system

VE: visible emissions

VOC: volatile organic compounds

x: By or times

Citations:

The following examples illustrate the methods used in this permit to abbreviate and cite the references of rules, regulations, guidance memorandums, permit numbers and ID numbers.

Code of Federal Regulations:

Example: **[40 CFR 60.334]**

Where:	40	refers to	Title 40
	CFR	refers to	Code of Federal Regulations
	60	refers to	Part 60
	60.334	refers to	Regulation 60.334

Florida Administrative Code (F.A.C.) Rules:

Example: **[Rule 62-213.205, F.A.C.]**

Where:	62	refers to	Title 62
	62-213	refers to	Chapter 62-213
	62-213.205	refers to	Rule 62-213.205, F.A.C.

Identification Numbers:

Facility Identification (ID) Number:

Example: Facility ID No.: 1050221

Where:

105 = 3-digit number code identifying the facility is located in Polk County
0221 = 4-digit number assigned by state database.

Permit Numbers:

Example: 1050221-002-AV, or
1050221-001-AC

Where:

AC = Air Construction Permit
AV = Air Operation Permit (Title V Source)
105 = 3-digit number code identifying the facility is located in Polk County
0221= 4-digit number assigned by permit tracking database
001 or 002= 3-digit sequential project number assigned by permit tracking database

Example: PSD-FL-185
PA95-01
AC53-208321

Where:

PSD = Prevention of Significant Deterioration Permit
PA = Power Plant Siting Act Permit
AC53 = old Air Construction Permit numbering identifying the facility is located in Polk County

APPENDIX - B

GENERAL CONDITIONS Pursuant Rule 62-4.160, Florida Administrative Code (F.A.C.):

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes (F.S.) The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

   a. Have access to and copy any records that must be kept under conditions of the permit;

   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

   a. A description of and cause of noncompliance; and

   b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

11. This permit is transferable only upon Department approval in accordance with Rules 62-4. 120 and 62-730. 300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

    c. Records of monitoring information shall include:
       (1) The date, exact place, and time of sampling or measurements;
       (2) The person responsible for performing the sampling or measurements;
       (3) The dates analyses were performed;
       (4) The person responsible for performing the analyses;
       (5) The analytical techniques or methods used;
       (6) The results of such analyses.

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Specific Authority 403. 061, 403. 087, 403. 088 FS. Law Implemented 403. 061, 403. 087, 403. 088 FS. History – New 8-31-88, Amended 10-4-89, 7-11-93, Formerly 17-4. 160.