



Jeb Bush
Governor

Department of Environmental Protection

FILE

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

David B. Struhs
Secretary

NOTICE OF AIR POLLUTION PERMIT

January 12, 2001

CERTIFIED MAIL
7099 3400 0005 7251 1768

ISSUED TO:

Broward County Office of Environmental Services
2555 W. Copans Road
Pompano Beach, Florida 33069

Permit Number: 0112357-003-AC
Issue Date: January 12, 2001
Expiration Date: January 11, 2002

Authorized Representative:

Mr. Michael J. Scottie, Director
Environmental Operations Division

PROJECT:

Project: Installation of a sixth emergency generator and replacement of two existing flares
Facility Description: A Wastewater Treatment Plant (SIC # 4952)
Location: 2401 Powerline Road, Broward County, Florida
Lat./Long.: 26°15'50" N / 80°09'20" W
UTM: Zone 17; 584.32 Km. E; 2095.2 Km. N

Dear Mr. Scottie:

This is Permit Number 0112357-003-AC to construct an air pollution source issued pursuant to Chapter 403.087, Florida Statutes (F.S.). This is a new construction permit to authorize construction of the sixth emergency generator and the replacement of two existing flares.

NOTICE OF RIGHTS:

Any party to this Order has the right to seek judicial review of the permit under Section 120.68 of the Florida Statutes, by filing a Notice of Appeal under Rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, 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 is filed with the Clerk of the Department.

STATEMENT OF BASIS:

This permit is issued 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.

"More Protection, Less Process"

Printed on recycled paper.

PART I -- SUMMARY INFORMATION

PERMIT CONTENTS:

- Part I -- Summary Information
- Part II -- Facility-Wide Specific Conditions
- Part III -- Emission Unit Specific Conditions
- Appendix A -- General Conditions

CONSTRUCT: This permit addresses the following air pollution emission units:

Emissions Unit Number	Emission Unit Description
003	Emergency Generator 1: Caterpillar Model 3516 Emergency Generator 2: Caterpillar Model 3516 Emergency Generator 3: Caterpillar Model D-399 Emergency Generator 4: Caterpillar Model D-399 Emergency Generator 5: Caterpillar Model D-399 Emergency Generator 6: Caterpillar Model 3516 All six generators are fired with number 2 fuel oil (diesel)
004	Two flares: Whessoe Varec 244W Series; both are fired with digester gas from anaerobic sludge digesters

SIGNIFICANT DATES:

Public Notice of Intent Published: December 16, 2000
Application Received: November 7, 2000

PERMIT HISTORY:

Permit No. 0112357-002-AF Issued August 27, 1998.
Permit No. 0112357-001-AV Withdrawn August 27, 1997

PART II – FACILITY-WIDE SPECIFIC CONDITIONS

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

1.0 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, Air Program, at PO Box 15425, West Palm Beach, Florida, 33416 (street address 400 North Congress Avenue, West Palm Beach, Florida, 33401, phone 561-681-6600). In addition, copies shall be submitted to the Broward County Department of Natural Resources Protection (street address 218 SW 1st Avenue, Ft. Lauderdale, FL 33301, Phone 954-519-1495).
- 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 ^ . 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 Extension of This Permit: The expiration date of this construction permit may be extended upon request of the owner or operator and submission of the appropriate fee to the Department of Environmental Protection, Southeast District Office, Air Program at least 60 days prior to the expiration date of this permit. [Rule 62-4.030, 62-4.050, and 62-4.220, F.A.C.]
- 1.7 Operation Permit Required: This permit authorizes construction and/or installation of the permitted emission units and initial operation to determine compliance with Department rules. **An operation permit is required for regular operation of the permitted emission units.** The owner or operator shall **apply for and receive an operation permit** prior to expiration of this permit. An application for an operation permit shall be submitted to the Department of Environmental Protection, Southeast District Office, Air Program. To apply for an operation permit, the applicant shall submit the appropriate application fee and, in quadruplicate, the appropriate application form, a certification that construction was completed with a notation of any deviations from the conditions in the construction permit, compliance test results, and such additional information as the Department may by law require. [Rules 62-4.030, 62-4.050, 62-4.220, and 62-210.300, F.A.C.]

2.0 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.]
- 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.

Such controls include the following:

- Tightly cover or close all VOC containers when they are not in use.
- Tightly cover all open tanks which 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.

[Rule 62-296.320(1), F.A.C.]

2.4 Unconfined Emission of Particulate Matter:

No person shall cause, let, permit, suffer or allow the emission 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 emission.

Reasonable precautions include the following:

- Paving and maintenance of roads, parking areas and yards.
- Application of water or chemicals to control emission from such activities as demolition of buildings, grading roads, construction, and land clearing.
- Application of asphalt, water, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
- 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.
- Landscaping or planting of vegetation.
- Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
- Confining abrasive blasting where possible.
- Enclosure or covering of conveyor systems.
- Substitution of powdery materials with granular or pelletized materials, where possible.
- Posting and enforcing a speed limit of 5 miles per hour for vehicles traveling on roadways on site.

[Rule 62-296.320(4)(c), F.A.C.]

3.0 **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 Emission:

Excess emission resulting from startup, shutdown or malfunction of any emission unit shall be permitted providing best operational practices to minimize emission are adhered to, and the duration of excess emission shall be minimized but in no case exceeds two hours in any 24 hour period unless specifically authorized by the Department for longer duration.

Excess emission 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 startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700, F.A.C.]

4.0 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 emission 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 emission 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 emission 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 emission unit to conduct compliance tests which identify the nature and quantity of pollutant emission from the emission unit and to provide a report on the results of said tests to the Department.

[Rule 62-297.310(7)(b), F.A.C.]

5.0 Reporting and Record Keeping Requirements

5.1 Report Excess Emission: In case of excess emission 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.]

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 emission 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. Test reports, other than for an EPA or DEP Method 9 test, shall include the following information and other information as necessary to make a complete report required pursuant to F.A.C. Rule 297.310(8)(c):

- 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.
- 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.
- The type of air pollution control devices installed on the emission 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.
- All measured and calculated data required to be determined by each applicable test procedure for each run.
- The detailed calculations for one run that relate the collected data to the calculated emission rate.
- The applicable emission standard, and the resulting maximum allowable emission rate for the emission unit, plus the test result in the same form and unit of measure.

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

- 5.5 **Annual Report Required:** On or before March 1 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, Air Program. **Included with this report shall be any additional reports, if any, required by this permit in Part III – Emission Unit Specific Conditions.**
[Rule 62-4.070(3), F.A.C.]

PART III -- EMISSION UNIT SPECIFIC CONDITIONS

This part of this permit addresses the following emission units:

Emissions Unit Number	Emissions Unit Description
003	Emergency Generator 1: Caterpillar Model 3516 Emergency Generator 2: Caterpillar Model 3516 Emergency Generator 3: Caterpillar Model D-399 Emergency Generator 4: Caterpillar Model D-399 Emergency Generator 5: Caterpillar Model D-399 Emergency Generator 6: Caterpillar Model 3516 All six generators are fired with number 2 fuel oil (diesel)
004	Two flares: Whessoe Varec 244W Series; both are fired with digester gas from anaerobic sludge digesters

1.0 Emission Limiting Standards and Operation Restrictions

- 1.1 Allowable Fuels: Fuel burned shall be limited to number 2 fuel oil (diesel) with a maximum sulfur content of 0.50 percent by weight.
[Rule 62-4.070(3), F.A.C.]
- 1.2 Fuel Consumption Limits: Fuel consumption shall not exceed 150,000 gallons in any consecutive 12-month period.
[Rule 62-4.070(3), F.A.C., ESCTV]

2.0 Compliance Monitoring and Testing Requirements

- 2.1 Fuel Consumption: The owner or operator shall monitor digester gas and diesel fuel consumption by metering the fuel.
[Rule 62-4.070(3), F.A.C.]
- 2.2 Diesel Fuel Certification: The permittee shall demonstrate compliance with the sulfur content limit based on certification from the fuel supplier for each shipment as follows: ASTM D4057-88, ASTM D129-91, ASTM D2622-94 or ASTM D4294-90 or the latest edition.
[Rules 62-4.070(3) and 62-297.440(1), F.A.C.]

3.0 Reporting and Record Keeping Requirements

- 3.1 The permittee shall record and maintain records indicating the diesel and digester gas fuel usage, hours of operation, repairs or maintenance on a monthly basis. The digester gas and diesel usage records shall be based on operational records that documented the amount of digester gas or diesel fuel used to fuel the generators and flares.
[Rule 62-4.070(3), F.A.C.]
- 3.2 From the monthly records of diesel fuel usage, the permittee shall record and maintain a rolling 12-month total of the amount of fuel consumed by the generators and boilers. This rolling 12-month total shall be used to demonstrate compliance with the fuel limitation in specific condition 1.2.
[Rule 62-4.070(3), F.A.C.]
- 3.3 AOR Supplemental Information: The Annual Operating Report shall include the following supplemental information that was recorded in the previous year calendar year:
- The amount of diesel fuel burned in the previous calendar year, including a statement by the permittee that the fuel sulfur content limit was not exceeded during the previous calendar year and that the records of fuel supplier certifications maintained by the permittee represents all diesel fuel burned during the previous calendar year.
 - The highest percent sulfur content (by weight) of diesel fuel received
 - The highest 12-month total of diesel fuel usage for each generator
 - The highest 12-month total of hours of operation for each generator

Executed in West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Isidore Goldman, P.E. JAN 12 2001
Isidore Goldman, P.E. Date
District Air Program Administrator
Southeast District

IG/la

cc: Jarret Mack, DNARP
Tom Tittle, SED/Air Section/Compliance & Enforcement

FILING AND ACKNOWLEDGMENT: FILED, on this date, pursuant to § 120.52(7), F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.

Maria R. Bruno
Clerk

01-12-01
Date

APPENDIX --A

GENERAL CONDITIONS:

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 403.087(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 the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does 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 or 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 the 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 the permit, the permittee shall immediately notify and provide the Department with the following information:
 - (a) A description of and cause of noncompliance; and

GENERAL CONDITIONS CONTINUED:

- (b) The period of noncompliance, including exact 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.
11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code (F.A.C.), as applicable. The permittee shall be liable for any noncompliance 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:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - 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 submitted or corrected promptly.