



# Department of Environmental Protection

# FILE

Jeb Bush  
Governor

Southeast District  
400 N. Congress Ave. Suite 200  
West Palm Beach, Florida 33401

Colleen M. Castille  
Secretary

**MAY 11 2005**

## NOTICE OF AIR POLLUTION PERMIT

### ISSUED TO:

Broward County Water & Wastewater Services  
2555 West Copans Road  
Pompano Beach, Florida 33069

Permit Number: 0112357-007-AC  
Issue Date: May 11, 2005  
Expiration Date: May 10, 2006

### Authorized Representative:

Mr. Michael J. Scottie  
Director, Water & Wastewater Operations Division

### PROJECT:

**Project:** Replacement of one (1) diesel engine generator, (generator # 3) within the existing set of six (6) emergency power generator  
**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;** 583.49 Km. E; 2905.01 Km. N

Dear Mr. Scottie:

This is Permit Number 0112357-007-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 emissions unit(s) described in this permit.

### 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"*

## 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 unit:

Emissions Unit Number	Emission Unit Description
003	Replacement of diesel engine generator # 3 with a proposed 2,000 KW Caterpillar Model 3516 diesel engine emergency power generator.

### SIGNIFICANT DATES:

Application Received: December 22, 2004  
Public Notice of Intent issued: March 17, 2005  
Public Notice of Intent published: March 27, 2005  
Proof of publication was received: April 04, 2005

### FACILITY PERMIT HISTORY:

Permit No. 0112357-006-AF Issued November 12, 2003  
Permit No. 0112357-005-AF Issued November 29, 2001 (Permit Modification)  
Permit No. 0112357-004-AF Issued June 13, 2001 (Permit Modification)  
Permit No. 0112357-003-AF Issued January 12, 2001  
Permit No. 0112357-002-AF Issued August 27, 1998

## 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 400 North Congress Avenue, Suite 200, West Palm Beach, Florida, 33401, phone 561-681-6600, Fax 561-681-6790. In addition, copies shall be submitted to the Broward County Environmental Protection Department ( Street address 218 SW 1<sup>st</sup> Avenue, Ft. Lauderdale, Florida 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 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 **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.  
[Rules 62-4.030, 62-4.050, and 62-4.220, 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.]
- {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.

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 62-297.310(7)(a), 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 Rule 297.310(8)(c), F.A.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 62-210.370(3), F.A.C.]

**PART III – EMISSION UNIT SPECIFIC CONDITIONS**

This part of this permit addresses the following emission unit:

Emissions Unit Number	Emission Unit Description
003	Replacement of diesel engine generator # 3 with a proposed 2,000 KW Caterpillar Model 3516 diesel engine emergency power generator.

**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 0.5 percent by weight.  
 [Rule 62-4.070(3), F.A.C]
- 1.2 Fuel Consumption Limits: Fuel consumption for all existing generators and this proposed generator combined shall not exceed more than 300,000 gallons in any 12-month rolling total.  
 [Requested by applicant on the application received on December 22, 2004 to escape Title V]
- 1.3 The hours of operation for the proposed generator in any 12-month rolling total shall not exceed as follows:

Proposed Generator	Model #	Hours of Operation per year
Generator # 3	Caterpillar Model 3516	357

[Requested by permittee to escape Title V]

**2.0 Compliance Monitoring and Testing Requirements**

- 2.1 Hours of Operation: The owner or operator shall monitor the hours of operation for each generator separately and keep records for the hours of operation.

**3.0 Reporting and Record Keeping Requirements**

- 3.1 From the monthly records of diesel fuel usage and hours of operation, the permittee shall record and maintain a rolling 12-month total record of hours of operation and the amount of diesel fuel consumed by all generator units. This rolling 12-month total records shall be used to demonstrate compliance with the fuel and hours of operation limitation in specific condition in Part III 1.2 & 1.3.  
 [Rule 62-4.070(3), F.A.C.]
- 3.2 AOR Supplemental Information: The Annual Operating Report shall include the following supplemental information that was recorded in the previous year calendar year:  
 [Rule 62-4.070(3)3, F.A.C.]
  - The highest percent sulfur content (by weight) of diesel fuel received
  - The highest 12-month rolling total hours of operation for each unit.
- 3.3 All records required under this section shall be maintained by the owner or operator of the affected facility for a period of five (5) years following the date of such record.  
 [Rule 62-610.300(3)(c)3.e, F.A.C.]
- 3.4 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 of 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.  
[Rules 62-297.440(1), & 62-4.070(1), F.A.C.]

Executed in West Palm Beach, Florida.

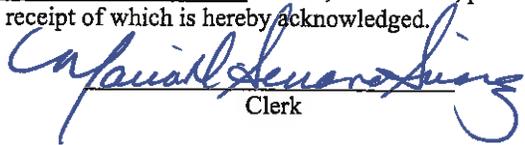
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

 5/10/05  
Kevin R. Neal Date  
District Director  
Southeast District

  
KRN/DG/LT/bf

cc: Alan W. Garcia, PE, Broward County WWS	e-mail	<a href="mailto:agarcia@broward.org">agarcia@broward.org</a>
Raisa Neginsky, Air Compliance Section, SED/DEP	e-mail	<a href="mailto:Raisa.Neginsky@dep.state.fl.us">Raisa.Neginsky@dep.state.fl.us</a>
Stan Ganthier, Air Compliance Section, SED/DEP	e-mail	<a href="mailto:Stanley.Ganthier@dep.state.fl.us">Stanley.Ganthier@dep.state.fl.us</a>
Clifton Bittle, PE, Broward County EPD	e-mail	<a href="mailto:cbittle@broward.org">cbittle@broward.org</a>

**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.

  
Clerk 05-11-05  
Date

## APPENDIX - A

### 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
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## APPENDIX - A

### GENERAL CONDITIONS CONTINUED:

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.*