

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:

Timothy Bates, Director of Energy Supply
City of Lakeland, Lakeland Electric
501 E. Lemon Street
Lakeland, Florida 33801-5079

DEP File No. 1050352-004-AC
Winston Peaking Station
Polk County

Enclosed is Final Permit Number 1050352-004-AC. This permit corrects minor inconsistencies between the original permit application information and the limitations of permit 1050352-001-AC that were discovered during the processing of the Title V air operation permit. Making these changes will allow the Title V air operation permit to be issued with limitations that will meet the US EPA's criteria for being practically enforceable and assure that the facility maintains the requested non-PSD classification. In addition, this action made changes to the visible emissions testing requirements contained in permit 1050352-001-AC, which expired on June 30, 2002. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order has the right to seek judicial review of it 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, Mail Station #35, 3900 Commonwealth Boulevard, 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 must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

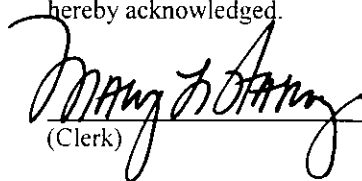
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final permit) was sent by certified mail (*) and copies were electronically mailed by Internet e-mail before the close of business on 12/28/04 to the person(s) listed:

Mr. Timothy Bates, Director of Energy Supply, Lakeland Electric *
Ms. Farzie Shelton, Lakeland Electric (farzie.shelton@lakelandgov.net)
Mr. Kennard Kosky, P.E. (kkoskey@golder.com)
U.S. EPA, Region 4 (INTERNET E-mail Memorandum)
Mr. Gerald Kissel, P.E., DEP-SWD (e-mail)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.



(Clerk)

12/28/04
(Date)

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Mr. Timothy Bates
 Director of Energy Supply
 City of Lakeland, Lakeland
 Electric
 501 E. Lemon Street
 Lakeland, Florida 33801-5079

2. Article (Trans)
 PS Forr

COMPLETE THIS SECTION ON DELIVERY

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|--|--------------------------------------|--|
| A. Signature <i>[Signature]</i> | | <input type="checkbox"/> Agent <input type="checkbox"/> Addressee |
| B. Received by (Printed Name) <i>KAROLINA HARRIS</i> | C. Date of Delivery <i>1/3/05</i> | |
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Sent To: **Mr. Timothy Bates, Director of Energy Supply - City of Lakeland**
 Street, Apt. No., or PO Box No.
501 E. Lemon Street
Lakeland, Florida 33801-5079

PS Form 3800, May 2000

See Reverse for Instructions

FINAL DETERMINATION

City of Lakeland, Lakeland Electric
Winston Peaking Station
DEP File No. 1050352-004-AC

The Department distributed a public notice package on November 19, 2004, to the City of Lakeland's Winston Peaking Station. The permit was issued to correct minor inconsistencies between the original permit application information and the limitations of permit 1050352-001-AC, that were discovered during the processing of the Title V air operation permit. Making these changes will allow the Title V air operation permit to be issued with limitations that will meet the US EPA's criteria for being practically enforceable and assure that the facility maintains the requested non-PSD classification. In addition, this action made changes to the visible emissions testing requirements contained in permit 1050352-001-AC, which expired on June 30, 2002.

The facility is located in Polk County, one-mile southeast of the intersection of Airport Road and Old Tampa Highway, Lakeland, Florida.

COMMENTS/CHANGES

No comments were received by the Department in response to the Draft permit and Public Notice.

CONCLUSION

The final action of the Department is to issue the final permit as it was noticed.



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

PERMITTEE:

City of Lakeland, Lakeland Electric
Winston Peaking Station
501 E. Lemon Street
Lakeland, Florida 33801-5079

ARMS Permit No. 1050352-004-AC

Facility ID No. 1050352

SIC No. 4911

Expires: March 1, 2005

Authorized Representative:

Timothy Bates
Director of Energy Supply

PROJECT AND LOCATION

Construction permit number 1050352-001-AC authorized the installation of 20 internal combustion engines with electrical generator sets. The 20 engines are capable of producing a nominal 50 MW (55 MW at peak load) of electricity. The Department is issuing this construction permit in order to correct minor inconsistencies between the original permit application information and the limitations of permit 1050352-001-AC, that were discovered during the processing of the Title V air operation permit. Making these changes will allow the Title V air operation permit to be issued with limitations that will meet the US EPA's criteria for being practically enforceable and assure that the facility maintains the requested non-PSD classification. In addition, this action will be used to respond to a recent request by Lakeland Electric to make changes to the visible emissions testing requirements contained in permit 1050352-001-AC, which expired on June 30, 2002.

The facility is located in Polk County, one-mile southeast of the intersection of Airport Road and Old Tampa Highway, Lakeland, Florida.


STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to make changes in accordance with the conditions of this permit.

APPENDICES

The following documents are attached and are incorporated as part of this permit:

1050352-001-AC Initial Air Construction Permit
Appendix GC Construction Permit General Conditions


Michael G. Cooke, Director
Division of Air Resource Management

"More Protection, Less Process"

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SECTION II. ADMINISTRATIVE REQUIREMENTS

FACILITY DESCRIPTION

The facility is located on a 6-acre parcel adjacent to an existing Lakeland Electric substation. Lakeland Electric owns the property and owns/controls the operation of the facility. Lakeland Electric owns the equipment and dispatches the units to supply electric power. The facility consists of twenty nominal 2.5-MW GM EMD 20/645/E4B diesel engines and one 294,000-gallon fuel oil storage tank. The engines use selective catalytic reduction, oxidation catalyst, and an air/fuel ratio regulator for emission reduction control. The units are designed for peaking service. The fuel for the engines is distillate fuel oil with natural gas. Fuel oil contains a maximum sulfur content of 0.05 percent. The 20 internal combustion engines with generators are capable of providing a nominal 50 MW (55 MW at peak load) of electrical power.

REGULATORY CLASSIFICATION

Title V Major Source: This facility is a Title V major source of air pollution.

PSD Major Source: Each pollutant with potential emissions greater than the Significant Emissions Rates specified in Table 62-212.400-2, F.A.C. requires a PSD review and Best Available Control Technology (BACT) determination. For this project, emissions of no pollutant are significant or subject to BACT standards, provided that the Emissions Units are operated as specified in this permit.

RELEVANT DOCUMENTS

The documents listed form the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department.

- 1050352-001-AC issued 8-20-01
- Company letters dated 8-26-03 and 2-23-04
- Technical Evaluation and Preliminary Determination dated 5-19-04

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

1. All of the terms and conditions of the attached air construction permit, No. 1050352-001-AC, dated August 20, 2001, are incorporated into this air construction permit and remain the same, except for the changes that follow in Specific Conditions 2. through 8., below.

2. In keeping with the permit application information and to assure PSD avoidance, Specific Condition 6. is changed:

From:

6. Nitrogen Oxides (NO_x): NO_x emissions from each internal combustion engine shall not exceed 13.9 lb/hr while in peak load operation firing distillate oil, 11.6 lb/hr while in base load operation firing distillate oil and 5.6 lb/hr in base load operation firing natural gas. Annual emissions of NO_x in tpy from these emission units shall be calculated by using the NO_x emission rate in lb/hr for each mode of operation multiplied by the total operating hours for each mode of operation for the 20 engines divided by 2000. This NO_x emission in tpy shall not exceed 250 TPY, based upon a consecutive 12-month period. This facility-wide annual emissions cap of 250 TPY shall become effective on the first day of the month following the initial compliance test of the first internal combustion engine, and compliance shall begin based upon the first twelve months of operation thereafter.

[Rule 62-212.400, F.A.C. (PSD avoidance)]

To:

6. Nitrogen Oxides (NO_x): NO_x emissions from each internal combustion engine shall not exceed 13.9 lb/hr while in peak load operation firing distillate oil, or 11.6 lb/hr while in base load operation firing distillate oil, or 5.58 lb/hr in base load operation firing natural gas. Annual emissions of NO_x in tpy from these emission units shall be calculated by using the allowable NO_x emission rate in lb/hr for each mode of operation multiplied by the total operating hours for each mode of operation for the 20 engines divided by 2000. (See Specific Condition 32.) This NO_x emission in tpy shall not exceed 249.4 TPY, based upon a consecutive 12-month period. This facility-wide annual emissions cap of 249.4 TPY shall become effective on the first day of the month following the initial compliance test of the first internal combustion engine, and compliance shall begin based upon the first twelve months of operation thereafter.

[Rule 62-212.400, F.A.C. (PSD avoidance)]

3. In order to remove conflicts between the limitations, the fuel quantity limitations in Specific Condition 12. are removed.

From:

12. Fuel Oil Consumption: The maximum No. 2 fuel oil allowed to be burned in the twenty internal combustion engines combined is 8,184,480 gallons per year, which is equivalent to 43,000 engine-hours per year at 100% load. The maximum natural gas that can be burned in the twenty internal combustion engines combined is 2,240 MMCF per year, which is equivalent to 89,200 engine-hours per year at 100% load. [Rule 62-210.200, F.A.C. (Definitions – PTE)]

To:

12. Reserved.

4. For practical enforceability, Specific Condition 14. is changed:

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

From:

14. Hours of Operation: The twenty internal combustion engines shall operate no more than 43,000 engine-hours when firing fuel oil at 100% load, 17,520 engine-hours at peak load and 89,200 engine-hours when firing natural gas during any consecutive 12-month period. The permittee shall install, calibrate, operate and maintain a monitoring system to measure the hours of operation for each fuel on each internal combustion engine. [Rule 62-210.200, F.A.C. (Definitions - PTE)]

To:

14. Hours of Operation: The twenty internal combustion engines shall operate no more than 43,000 engine-hours when firing fuel oil at 100% load, or 17,520 engine-hours at peak load or 89,200 engine-hours when firing natural gas during any consecutive 12-month period. If multiple fuels are used during a 12-month period, the allowable hours for each fuel type shall be prorated so as not to exceed the facility-wide NO_x cap. The permittee shall install, calibrate, operate and maintain a monitoring system to measure the hours of operation for each fuel on each internal combustion engine. Compliance with the facility-wide NO_x cap shall be demonstrated using the equation contained in Specific Condition 32. [Rule 62-210.200, F.A.C. (Definitions - PTE)]

5. At applicant request, to require annual visible emissions testing only on units that operate more than 400 hours per year, Specific Condition 20. is changed:

From:

20. Annual Performance Tests: To demonstrate compliance with the emission standards specified in this permit, the permittee shall conduct annual performance tests for visible emissions on emissions unit that operated in the preceding 12-month period. Annual performance tests for NO_x shall be conducted on the emission units that emitted more than 100 tons per year of NO_x in the preceding 12-month period. The facility will be required to keep 12-month emission totals of NO_x in tons per year for each internal combustion engine during each federal fiscal year (October 1- September 30). Tests required on an annual basis shall be conducted at least once during each federal fiscal year. [Rule 62-297.310(7)(a)4., and 62-297.310(7)(c), F.A.C.]

To:

20. Annual Performance Tests: To demonstrate compliance with the emission standards specified in this permit, the permittee shall conduct annual performance tests for visible emissions on each emissions unit that operated for more than 400 hours in the preceding 12-month period. Annual performance tests for NO_x shall be conducted on the emission units that emitted more than 100 tons per year of NO_x in the preceding 12-month period. The facility will be required to keep 12-month emission totals of NO_x in tons per year for each internal combustion engine during each federal fiscal year (October 1- September 30). Tests required on an annual basis shall be conducted at least once during each federal fiscal year. [Rule 62-297.310(7)(a)4., and 62-297.310(7)(c), F.A.C.]

6. Rule 62-297.310(7)(a)3., F.A.C., requires that all units be tested for compliance with all emissions limits prior to renewal of the source's operating permit. Permit No. 1050352-001-AC gave consideration to the fact that the twenty units at this facility are identical and provided a relaxation from the requirement to test all of the units by specifying that only one unit needed to be tested prior to permit renewal. In order to assure that the compliance tests prior to renewal provide results for all emissions limited pollutants that are representative of worst case emissions (considering wear of the units over time), Specific Condition 21. is changed:

From:

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

21. Tests Prior to Permit Renewal: Prior to renewing the air operation permit, the permittee shall conduct performance tests for NO_x and visible emissions on one of the internal combustion engines. These tests shall be conducted within the 12-month period prior to renewing the air operation permit. For pollutants required to be tested annually, the permittee may submit the most recent annual compliance test to satisfy the requirements of this provision. [Rule 62-297.310(7)(a)3., F.A.C.]

To:

21. Tests Prior to Permit Renewal: Prior to renewing the air operation permit, the permittee shall conduct performance tests for NO_x, visible emissions and ammonia on the internal combustion engine that operated for the most hours during the previous five years. These tests shall be conducted within the 12-month period prior to renewing the air operation permit. For pollutants required to be tested annually, the permittee may submit the most recent annual compliance test to satisfy the requirements of this provision. [Rule 62-297.310(7)(a)3., F.A.C.]

7. To provide a cross-reference to Specific Condition 32., Specific Condition 29. is changed:

From:

29. Monthly Operations Summary: By the fifth calendar day of each month, the permittee shall record the 12-month hours of operation of the internal combustion engines, 12-month emission totals for NO_x and amount of the No. 2 fuel oil and natural gas fired in the internal combustion engines. The information shall be recorded in a written or electronic log and shall be available for inspection and/or printing within at least one day of a request from the Compliance Authority. [Rule 62-4.160(15), F.A.C.]

To:

29. Monthly Operations Summary: By the fifth calendar day of each month, the permittee shall record the 12-month hours of operation of the internal combustion engines, 12-month emission totals for NO_x (see Specific Condition 32.), and amount of the No. 2 fuel oil and natural gas fired in the internal combustion engines. The information shall be recorded in a written or electronic log and shall be available for inspection and/or printing within at least one day of a request from the Compliance Authority. [Rule 62-4.160(15), F.A.C.]

8. To provide a method for assuring compliance with the facility-wide NO_x emissions cap based on records of fuel usage and hours of operation, the following Specific Condition 32. is added:

32. Compliance Assurance Demonstration Method: Using the information required by Specific Conditions 14. & 29., compliance with the 12-month facility-wide NO_x emissions cap shall be demonstrated by using the following equation:

$$[(X * 11.6 \text{ lbs/hr}) + (Y * 13.9 \text{ lbs/hr}) + (Z * 5.6 \text{ lbs/hr}) / (2000 \text{ lbs/ton})] = \text{Calculated tons of NO}_x.$$

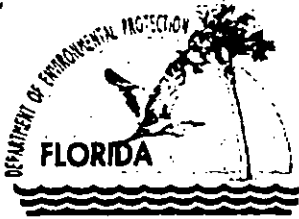
Where:

X = Documented hours per year firing oil at 100% load (total of all 20 engines)

Y = Documented hours per year firing oil at peak load (total of all 20 engines)

Z = Documented hours per year firing natural gas at 100% load (total of all 20 engines)

[Rule 62-4.070(1), F.A.C.]



Jeb Bush
Governor

Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

PERMITTEE:

City of Lakeland; Lakeland Electric
Winston Peaking Station
501 E. Lemon Street
Lakeland, Florida 33801-5079

Authorized Representative:

Roger D. Harr
City Manager

ARMS Permit No. 1050352-001-AC

Facility ID No. 1050352

SIC No. 4911

Expires: June 30, 2002

PROJECT AND LOCATION

The proposed project authorizes the installation of 20 internal combustion engines with electrical generator sets. The 20 engines are capable of producing a nominal 50 MW (55 MW at peakload) of electricity.

The project will be located in Polk County, one-mile southeast of the intersection of Airport Road and Old Tampa Highway, Lakeland, Florida. The UTM coordinates are Zone 17, 400.2 km E, 3100.6 km N.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department.

APPENDICES

The following Appendices are attached as part of this permit.

Appendix GC - Construction Permit General Conditions

Howard L. Rhodes, Director
Division of Air Resources Management

"More Protection. Less Process"

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SECTION II. ADMINISTRATIVE REQUIREMENTS

FACILITY DESCRIPTION

The facility will be located on a 6-acre parcel adjacent to an existing Lakeland Electric substation. Lakeland Electric will own the property and own/control the operation of the facility. Lakeland Electric will own the equipment and dispatch the units to supply electric power. The Project consists of the construction and operation of twenty nominal 2.5-MW GM EMD 20/645/E4B diesel engines and one 294,000-gallon fuel oil storage tank. The engines will use selective catalytic reduction, oxidation catalyst, and an air/fuel ratio regulator for emission reduction control. The units are designed for peaking service. The fuel for the engines will be distillate fuel oil with natural gas. Fuel oil will contain a maximum sulfur content of 0.05 percent. Completion of this project will result in the installation of 20 internal combustion engines with generators capable of providing a nominal 50 MW (55 MW at peakload) of electrical power.

REGULATORY CLASSIFICATION

Title V Major Source: This facility is a Title V major source of air pollution.

PSD Major Source: Each pollutant with potential emissions greater than the Significant Emissions Rates specified in Table 62-212.400-2, F.A.C. requires a PSD review and Best Available Control Technology (BACT) determination. For this project, emissions of no pollutant are significant or subject to BACT standards, provided that the Emission Unit is operated as specified in this permit.

PERMIT SCHEDULE

- 05-14-01: Date of Receipt of Permit Application
- 07-19-01: Application deemed complete
- 07-27 -01: Intent issued
- 08-01-01: Notice published in the Lakeland Ledger

RELEVANT DOCUMENTS

The documents listed form the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department.

- Application received 5-14-01
- Department letters dated 5-24-01 and 7-10-01
- Company letters dated 6-12-01 and 7-14-01
- Technical Evaluation and Preliminary Determination dated 7-24-01

SECTION II. ADMINISTRATIVE REQUIREMENTS

GENERAL AND ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: All documents related to applications for permits to construct, operate or modify an emissions unit should be submitted to the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (DEP), at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400 and phone number 850/488-0114.
2. Compliance Authority: All documents related compliance activities such as reports, tests, and notifications should be submitted to the FDEP Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318. The phone number is 813/744-6100 and the fax number is 813/744-6084.
3. Terminology: The terms used in this permit have specific meanings as defined in the applicable chapters of the Florida Administrative Code.
4. General Conditions: The owner and operator are subject to, and shall operate under, the attached General Conditions listed in *Appendix GC* of this permit. General Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes. [Rule 62-4.160, F.A.C.]
5. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S. and Florida Administrative Code Chapters 62-4, 62-110, 62-204, 62-212, 62-213, 62-296, 62-297 and the Code of Federal Regulations Title 40, Part 60, adopted by reference in the Florida Administrative Code (F.A.C.) regulations. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
6. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
7. Modifications: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
8. Expiration: This air construction permit shall expire on **June 30, 2002**. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation prior to 60 days before the expiration of the permit. [Rules 62-210.300(1), 62-4.070(4) 62-4.080, and 62-4.210, F.A.C.]
9. Title V Permit: This permit authorizes construction and/or installation of the permitted emissions unit and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emissions unit. The owner or operator shall apply for a Title V operation permit at least ninety days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Department's Bureau of Air Regulation, and a copy sent to the Department's Southwest District office. [Rules 62-4.030, 62-4.050, 62-4.220, and 62-213.420, F.A.C.]

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

This permit addresses the following emissions units.

| EU ID No. | EMISSIONS UNIT DESCRIPTION |
|-----------|--|
| 001 - 020 | 20 GM EMD 20/645/E4B diesel engines and associated electric generators. Each Power Module consists of one General Motors (GM) Electro Motive Division (EMD) 20-cylinder Model 645 E4B, 2-cycle turbocharged internal combustion (IC) engine and one Baylor-Stallion Model G8558RNV electric generator. The GM EMD IC engine has a power rating of 3,600 brake horsepower (bhp) at 100 percent load. The Baylor-Stallion generator has a power output rating of 2,500 kilowatt (continuous rating) and 2,750 kilowatts (kW) under peak load conditions. The IC engines will be fired with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil and natural gas (with 6 percent diesel fuel for ignition). |

The following Specific Conditions apply to the new emission units 001-020:

PERFORMANCE RESTRICTIONS

1. **Internal Combustion Engines:** The permittee is authorized to install, tune, operate and maintain 20 new internal combustion engines with electrical generator sets (GM EMD 20/645/E4B diesel engines and Baylor-Stallion Model G8558RNV electric generator). The 20 generators are designed to produce a nominal 50 MW (55 MW at peakload) of electrical power. [Applicant Request]
2. **Future PSD Review:** The internal combustion engines shall not exceed the permitted hours of operation, nor the permitted NO_x emission limits allowed by this permit. This restriction is based on the permittee's request, which formed the basis of the PSD non-applicability determination and resulted in the emission standards specified in this permit. For any request to modify this emission unit (whether a physical or operational modification, including a change in the allowable hours of operation or heat input) the permittee shall submit a full PSD permit application, if required under the Department's rules. [Rules 62-212.400(2)(g) and 62-212.400(6)(b), F.A.C.]
3. **Allowable Fuel:** The internal combustion engine shall be fired primarily with No. 2 fuel oil and natural gas (with 6 percent diesel fuel for ignition). The permittee shall demonstrate compliance with the fuel oil sulfur limit by keeping the records specified in this permit. [Applicant Request, Rule 62-210.200, F.A.C. (Definition - PTE)]
4. **Plant Operation - Problems:** If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify the Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]

EMISSIONS CONTROLS

5. **Unconfined Emissions of Particulate Matter:** [Rule 62-296.320(4)(c), F.A.C.]
 - (a) 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,

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.

(b) Any permit issued to a facility with emissions of unconfined particulate matter shall specify the reasonable precautions to be taken by that facility to control the emissions of unconfined particulate matter.

(c) Reasonable precautions include the following:

- Paving and maintenance of roads, parking areas and yards.
- Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
- Application of asphalt, water, oil, 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 re-entrainment, 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.

(d) In determining what constitutes reasonable precautions for a particular source, the Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice.

EMISSION STANDARDS

6. Nitrogen Oxides (NO_x):

NO_x emissions from each internal combustion engine shall not exceed 13.9 lb/hr while in peakload operation firing distillate oil, 11.6 lb/hr while in baseload operation firing distillate oil and 5.6 lb/hr in baseload operation firing natural gas. Annual emissions of NO_x in tpy from these emission units shall be calculated by using the NO_x emission rate in lb/hr for each mode of operation multiplied by the total operating hours for each mode of operation for the 20 engines divided by 2000. This NO_x emission in tpy shall not exceed 250 TPY, based upon a consecutive 12-month period. This facility-wide annual emissions cap of 250 TPY shall become effective on the first day of the month following the initial compliance test of the first internal combustion engine, and compliance shall begin based upon the first twelve months of operation thereafter.

[Rule 62-212.400, F.A.C. (PSD avoidance)]

7. General Visible Emissions Standard:

Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer, or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20% opacity). The test method for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C. Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C. **[Rule 62-296.320(4)(b)1, F.A.C.]**

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8. Ammonia Emissions:

The concentration of ammonia in the exhaust gas from each internal combustion engine shall not exceed 10 ppmvd @15% O₂ while firing natural gas or fuel oil. [Rule 62-4.070, F.A.C.]

EXCESS EMISSIONS

9. Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit 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 for longer duration. [Rule 62-210.700(1), F.A.C.]

10. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction, shall be prohibited. [Rule 62-210.700(4), F.A.C.]

OPERATIONAL LIMITATIONS

11. Fuel Oil Specification: No. 2 fuel oil and natural gas can be fired in the internal combustion engines. Only No. 2 fuel oil will be fired in the engines for the first two years of operation. The maximum sulfur content of the No. 2 fuel oil shall not exceed 0.05 percent, by weight. [Rule 62-210.200, F.A.C. (Definitions – PTE)]

12. Fuel Oil Consumption: The maximum No. 2 fuel oil allowed to be burned in the twenty internal combustion engines combined is 8,184,480 gallons per year, which is equivalent to 43,000 engine-hours per year at 100% load. The maximum natural gas that can be burned in the twenty internal combustion engines combined is 2,240 MMCF per year, which is equivalent to 89,200 engine-hours per year at 100% load. [Rule 62-210.200, F.A.C. (Definitions – PTE)]

13. Permitted Capacity: The heat input to each internal combustion engine from firing No. 2 fuel oil shall not exceed 25 MMBtu per hour at 100% load or 28 MMBTU per hour at peak load. The heat input to each internal combustion engine from firing natural gas shall not exceed 29 MMBTU per hour at 100% load. [Design, Rule 62-210.200, F.A.C. (Definition - PTE)]

14. Hours of Operation: The twenty internal combustion engines shall operate no more than 43,000 engine-hours when firing fuel oil at 100% load, 17,520 engine-hours at peak load and 89,200 engine-hours when firing natural gas during any consecutive 12-month period. The permittee shall install, calibrate, operate and maintain a monitoring system to measure the hours of operation for each fuel on each internal combustion engine. [Rule 62-210.200, F.A.C. (Definitions - PTE)]

EMISSIONS PERFORMANCE TESTING

15. Sampling Facilities: The permittee shall design the internal combustion engine stack to accommodate adequate testing and sampling locations in order to determine compliance with the applicable emission limits specified by this permit. [Rule 62-297.310(6), F.A.C.]

16. Performance Test Methods: Initial (I) and Annual (A) compliance tests shall be performed in accordance with the following reference methods as described in 40 CFR 60, Appendix A, and adopted by reference in Chapter 62-204.800, F.A.C.

(a) EPA Method 7 or 7E – Determination of Nitrogen Oxide Emissions from Stationary Sources (I, A);

(b) EPA Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources (I, A);

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(c) Method CTM-027 or equivalent for ammonia slip (I);

No other test methods may be used for compliance testing unless prior DEP approval is received, in writing, from the DEP Emissions Monitoring Section Administrator.

17. Fuel Monitoring: The fuel oil shall be monitored initially and annually for the sulfur content using ASTM D4294 Method (or equivalent). The permittee shall also maintain daily records of fuel oil and natural gas consumption for the emission units. [Rules 62-297.440, F.A.C., and 62-210.200, F.A.C.]
18. Test Notification: The permittee shall notify the Compliance Authority in writing at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. [Rule 62-297.310(7)(a)9., F.A.C.]
19. Initial Tests Required: Initial performance tests to demonstrate compliance with the emission standards specified in this permit shall be conducted within 60 days after achieving at least 90% of permitted capacity, but not later than 180 days after initial operation of the emissions unit. Initial performance tests shall be conducted for NO_x and visible emissions on a sample of 5 (five) randomly picked internal combustion engines for the first year. A different set of randomly picked five engines from the remaining internal combustion engines will be tested during subsequent years of operation until all of the engines have completed the initial performance test. Initial performance test while firing natural gas shall be done when the fuel is available to the facility. Initial performance test shall be conducted for ammonia slip for both oil and gas (when available) on only one internal combustion engine. [Rule 62-297.310(7)(a)1., and 62-297.310(7)(c), F.A.C.]
20. Annual Performance Tests: To demonstrate compliance with the emission standards specified in this permit, the permittee shall conduct annual performance tests for visible emissions on emissions unit that operated in the preceding 12-month period. Annual performance tests for NO_x shall be conducted on the emission units that emitted more than 100 tons per year of NO_x in the preceding 12-month period. The facility will be required to keep 12-month emission totals of NO_x in tons per year for each internal combustion engine during each federal fiscal year (October 1- September 30). Tests required on an annual basis shall be conducted at least once during each federal fiscal year. [Rule 62-297.310(7)(a)4., and 62-297.310(7)(c), F.A.C.]
21. Tests Prior to Permit Renewal: Prior to renewing the air operation permit, the permittee shall conduct performance tests for NO_x and visible emissions on one of the internal combustion engines. These tests shall be conducted within the 12-month period prior to renewing the air operation permit. For pollutants required to be tested annually, the permittee may submit the most recent annual compliance test to satisfy the requirements of this provision. [Rule 62-297.310(7)(a)3., F.A.C.]
22. Internal Combustion Engine Testing Capacity: Performance tests for compliance with standards specified in this permit shall be conducted with the emission unit operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum heat input rate allowed by the permit. If it is impracticable to test at permitted capacity, the source may be tested at less than permitted capacity. However, subsequent operation is limited to 110 percent of the value reached during the test until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity. Emissions performance tests shall meet all applicable requirements of Chapters 62-204 and 62-297, F.A.C. [Rule 62-297.310(2), F.A.C.]
23. Calculation of Emission Rate: For each emissions performance test, the indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of

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the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]

24. Applicable Test Procedures

(a) Required Sampling Time.

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes. [Rule 62-297.310(4)(a)1., F.A.C.]
2. The minimum observation period for a visible emissions compliance test shall be thirty (30) minutes. The observation period shall include the period during which the highest opacity can reasonably be expected to occur. [Rule 62-297.310(4)(a)2., F.A.C.]

(b) Minimum Sample Volume. Unless otherwise specified in the applicable rule or test method, the minimum sample volume per run shall be 25 dry standard cubic feet. [Rule 62-297.310(4)(b), F.A.C.]

(c) Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, F.A.C. [Rule 62-297.310(4)(d), F.A.C.]

25. Determination of Process Variables

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards. [Rule 62-297.310(5)(a), F.A.C.]

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value. [Rule 62-297.310(5)(b), F.A.C.]

26. 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 contained in a Department rule 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.]

RECORDKEEPING AND REPORTING REQUIREMENTS

27. Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least five (5) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Rules 62-4.160(14) and 62-213.440(1)(b)2., F.A.C.]

28. Emissions Performance Test Reports: A report indicating the results of any required emissions performance test shall be submitted to the Compliance Authority no later than 45 days after completion of the last test run. The test report shall provide sufficient detail on the tested emission unit and the procedures used to allow the Department to determine if the test was properly conducted and if the test

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

results were properly computed. At a minimum, the test report shall provide the applicable information listed in Rule 62-297.310(8)(c), F.A.C. [Rule 62-297.310(8), F.A.C.]

29. Monthly Operations Summary: By the fifth calendar day of each month, the permittee shall record the 12-month hours of operation of the internal combustion engines, 12-month emission totals for NO_x and amount of the No. 2 fuel oil and natural gas fired in the internal combustion engines. The information shall be recorded in a written or electronic log and shall be available for inspection and/or printing within at least one day of a request from the Compliance Authority. [Rule 62-4.160(15), F.A.C.]
30. Annual Operating Report: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by March 1st of each year. [Rule 62-210.370(2), F.A.C.]
31. NSPS Requirements: The fuel oil storage tank shall comply with the requirements of 40 CFR 60, Subpart Kb.

APPENDIX GC
GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]

- G.1 The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. 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.
- G.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 or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- G.3 As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and 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 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.
- G.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.
- G.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.
- G.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.
- G.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 a reasonable time, access to the premises, where the permitted activity is located or conducted to:
- a) Have access to and copy and 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.
- G.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 non-compliance; and
 - b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

APPENDIX GC
GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]

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.

- G.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 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- G.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.
- G.11 This permit is transferable only upon Department approval in accordance with Florida Administrative Code 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.
- G.12 This permit or a copy thereof shall be kept at the work site of the permitted activity.
- G.13 This permit also constitutes:
- a) Determination of Best Available Control Technology ()
 - b) Determination of Prevention of Significant Deterioration (); and
 - c) Compliance with New Source Performance Standards (x). Subpart Kb requirements
- G.14 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 or 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; and
 - 6. The results of such analyses.
- G.15 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 that 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.