STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit

Mr. Darryl Scott, General Manager
Tampa Electric Company
Post Office Box 111
Tampa, Florida 33601-0111

Permit: 0570038-002-AC

Enclosed is the FINAL Permit, which allows installation of 30 (thirty) Internal Combustion Engines, each, rated at 1.825 MW nominal at Hookers Point Station in Hillsborough County. This permit is issued pursuant to Chapter 403, Florida Statutes and 62-4 through 297, F.A.C and 40 CFR 52.21 - Prevention of Significant Deterioration(PSD).

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; 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 (thirty) days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

for C.H. Fancy, P.E., 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 mailed by U.S. Mail before the close of business on 4/20/01 to the person(s) listed:

Mr. Darryl Scott, TEC*
Mr. Gregg Worley, EPA
Mr. Bill Thomas, DEP SWD
Mr. Jerry Campbell, HCEPC
Mr. Tom Davis, P.E., ECT

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.

Charlotte J. Hayes (Clerk) 4/20/01 (Date)

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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. Darryl Scott, Gen. Mgr.
Tampa Electric Company
PO Box 111
Tampa, FL 33601-0111

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* B. Date of Delivery 4/25/

C. Signature
X ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)* 7099 3400 0000 1450 2767

PS Form 3811, July 1999 Domestic Return Receipt 102595-00-M-0952

7099 3400 0000 1450 2767

U.S. Postal Service
CERTIFIED MAIL RECEIPT
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Article Sent To:
Mr. Darryl Scott

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

Name (Please Print Clearly) (to be completed by mailer)
Mr. Darryl Scott
Street, Apt. No.; or PO Box No.
PO Box 111
City, State, ZIP+4
Tampa, Fl 33601-0111

PS Form 3800, July 1999 See Reverse for Instructions

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

PERMITTEE:

Tampa Electric Company
Hookers Point Station
1700 Hemlock Street
Tampa, Florida 33605-6660

ARMS Permit No.	0570038-002-AC
Facility ID No.	0570038
SIC No.	4911
Expires:	December 1, 2001

Authorized Representative:
Mr. Darryl Scott
General Manager

PROJECT AND LOCATION

The proposed project authorizes the installation of thirty internal combustion engines with electrical generator sets. The thirty engines are capable of producing a nominal 54.75 MW of electricity.

The project will be located in Hillsborough County at 1700 Hemlock Street, Tampa. The UTM coordinates are Zone 17, 358 km E, 3091 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

FACILITY DESCRIPTION

The existing facility consists of six oil-fired steam boilers (Units Nos. 1 through 6) at the Hookers Point Station located at 1700 Hemlock Street, Tampa, Hillsborough County. All the boilers are fired using No. 6 fuel oil. The boilers may also fire a limited quantity of on-specification used oil. The total generating capacity at this facility is 227 megawatts. Also located at this facility are miscellaneous unregulated/insignificant emissions units and/or activities. Title V Final Permit No. 0570038-001-AV currently authorizes operation of the existing steam boilers. Final Title V Permit was issued with an effective date of January 1, 1998 and expires on January 1, 2002. Completion of this project will result in the installation of thirty internal combustion engines with generators capable of providing a nominal 54.75 MW of electrical power.

REGULATORY CLASSIFICATION

Acid Rain: This facility is subject to the acid rain provisions of the Clean Air Act (Title IV).

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. However, the existing facility is classified as a PSD Major Source.

PERMIT SCHEDULE

- 01-23-01: Date of Receipt of Permit Application
- 02-07-01: Application deemed complete
- 03-30-01: Intent issued
- 04-04-01: Notice published in the Tampa Tribune

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 1-23-01
- Department letter dated 1-30-01
- Company letters dated 2-06-01 and 2-15-01
- Technical Evaluation and Preliminary Determination dated 3-21-01
- EPA's letter dated April 17, 2001

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 Air Management Division, Hillsborough County Environmental Protection Commission, 1900 Ninth Avenue, Tampa, Florida 33605. The phone number is 813/272-5960 and the fax number is 813/272-5157.

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 **December 1, 2001**. 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.]**

This permit addresses the following emissions units.

EU ID No.	EMISSIONS UNIT DESCRIPTION
001 – 006#	Six boilers that are fired using No. 6 fuel oil.
007 – 036*	30 Caterpillar XQ2000 Power Modules. Each Power Module consists of one Caterpillar 3516B 16-cylinder, 4-stroke cycle diesel internal combustion (IC) engine and one Caterpillar SR4B generator. The Caterpillar 3516B IC engine has a power rating of 2,593 brake horsepower (bhp) at 100 percent load. The Caterpillar SR4B generator has a power output rating of 1,825 kilowatts (kW) at 100 percent load. The IC engines will be fired exclusively with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil.

Existing Emission units

* New Emission units

The following Specific Conditions apply to the new emission units 007-036:

PERFORMANCE RESTRICTIONS

1. Internal Combustion Engines: The permittee is authorized to install, tune, operate and maintain thirty new internal combustion engines with electrical generator sets (Caterpillar XQ2000 Power modules). The thirty generators are designed to produce a maximum 54.75 MW 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 in any way (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. **[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. The permittee shall demonstrate compliance with the fuel 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.]**

5. Noise Nuisance: The permittee shall comply with the noise nuisance ordinances as outlined in Chapter 1-10 of the Rules of Environmental Protection Commission of Hillsborough County. **[Rule 1-10.01(B)(9) and Rule 1-10.03, EPCHC]**

EMISSIONS CONTROLS

6. 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, 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

7. Nitrogen Oxides (NO_X):

   NO_X emissions from each internal combustion engine shall not exceed 53 lb/hr. Additionally, annual emissions of NO_X in tpy from these emission units shall be calculated by using the NO_x emission rate of 53 lb/hr multiplied by the total operating hours for the thirty engines divided by 2000. This NO_x emission in tpy when combined with the NO_x emissions for the existing emission units (EU001-EU006) in tpy shall not exceed 682 TPY, based upon a consecutive 12-month period. This facility-wide annual emissions cap shall become effective on the fifth day of the month following the start-up of the first internal combustion engine, and compliance shall begin based upon the first twelve months of operation thereafter. NO_x emissions from the existing emission units (EU001-EU006) shall not exceed 100 TPY. NO_x emissions from the existing emission units shall be determined using CEM's and converted to tpy.

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

8. 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 if 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.]**

EXCESS EMISSIONS

9. 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.]**

10. Excess Emissions Allowed: Providing the permittee adheres to best operational practices to minimize the amount and duration of excess emissions, the following conditions shall apply:

    (a) During startup and shutdown, visible emissions shall not exceed 27% opacity for up to 2 hours in any 24-hour period. **[Design; Rule 62-210.700(1), F.A.C.]**

OPERATIONAL LIMITATIONS

11. Fuel Oil Specification: Only No. 2 fuel oil can be fired in the internal combustion engines. 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 thirty internal combustion engines combined is 2,713,880 gallons per year, which is equivalent to 22,100 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 17 MMBtu per hour at 100% load. **[Design, Rule 62-210.200, F.A.C. (Definition - PTE)]**

14. Hours of Operation: The thirty internal combustion engines shall operate no more than 22,100 engine-hours during any consecutive 12-month period. The permittee shall install, calibrate, operate and maintain a monitoring system to measure the hours of operation on each internal combustion engine. **[Rule 62-210.200, F.A.C. (Definitions - PTE)]**

15. Operational Period: The thirty internal combustion engines shall cease operation in June 2003. **[Applicant Request]**

EMISSIONS PERFORMANCE TESTING

16. 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.]**

17. 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);

    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.

18. Fuel Oil Monitoring: The fuel 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 consumption for the emission units. **[Rules 62-297.440, F.A.C., and 62-210.200, F.A.C.]**

19. 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.]**

20. 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 25 (twenty five) internal combustion engines will be tested during the second year of operation. **[Rule 62-297.310(7)(a)1., and 62-297.310(7)(c), F.A.C.]**

21. Annual Performance Tests: To demonstrate compliance with the emission standards specified in this permit, the permittee shall conduct annual performance tests for NO_X and visible emissions on the emission units that operated for more than 3,700 hours in the preceding 12-month period. Tests required on an annual basis shall be conducted at least once during each federal fiscal year (October 1st to September 30th). **[Rule 62-297.310(7)(a)4., and 62-297.310(7)(c), F.A.C.]**

22. 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.]**

23. 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.]**

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

25. 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.]**

26. 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.]**

27. 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

28. 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.]**

29. 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 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.]**

30. 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 fired for 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.]**

31. 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.]**

The following Specific Conditions apply to the existing emission units 001-006:

1. The existing emission units shall comply with all the requirements of 0570038-001-AV with the exceptions listed below in conditions 2 through 4. **[Title V Permit Requirements]**
2. For each 12-month period that the thirty internal combustion engines (EU007-EU036) operate below 22,100 engine-hours, the existing emission units 001 through 006 may operate to reach the facility-wide NO_x cap of 682 tpy. NO_x emissions from the existing emission units (EU001-EU006) shall not exceed 100 tpy. The existing emission units shall use the CEM system to demonstrate compliance with the emission limits for NO_x. **[Rule 62-212.400, F.A.C. (PSD avoidance)]**
3. The existing emission units may not operate simultaneously with the internal combustion engines unless the facility must do so to avoid interrupting customers. In the event that the facility does operate the two sources together, upon request from the Department, shall provide the necessary documentation to show the necessity of operating the two sources simultaneously. **[Applicant Request]**
4. The existing emission units may operate with a NO_x emissions cap of 100 tpy after the internal combustion engines ceases operation in June 2003. **[Applicant Request]**

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.

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 ( ).

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.

Memorandum

Florida Department of
Environmental Protection

TO: Howard L. Rhodes

THRU: ~~Clair Fancy~~ ag for CHF
Al Linero 4/19

FROM Syed Arif 4/19

DATE: April 19, 2001

SUBJECT: Tampa Electric Company Hookers Point Station
DEP File No. 0570038-002-AC; 30 Internal Combustion Engines

Attached for approval and signature is a construction permit to Tampa Electric Company for the Hookers Point Station, located in Tampa, Hillsborough County. The permit is to install 30 (thirty) Internal Combustion (IC) Engines each rated at 1.825 MW nominal. The 30 engines will be capable of producing 54.75 MW of electricity. The IC engines will be fired exclusively with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil.

The applicant proposes to install these 30 IC Engine/Generator sets and will utilize these diesel generators more than their existing six boilers that primarily burn No. 6 fuel oil. The applicant has accepted restriction on the hours of operation for the 30 IC engines and a 100-ton cap on NO_x emissions from the existing six boilers. The restriction in the operating hours will provide reasonable assurance that emissions of the remaining criteria pollutants will remain below the significant net emission increase thresholds. The Department will require the use of Continuous Emission Monitoring Systems (CEMS) for the measurement of NO_x from the existing six boilers and run-time meters for the thirty IC engines. The IC engines will be operated for two years primarily during the peak summer demand, and will cease operation in June 2003. The existing boilers will continue to operate beyond that period but will have a 100-ton cap on NO_x emissions.

There was a comment from EPA during the public notice period. EPA did not agree with our netting analysis. Changes were made to the final permit to accommodate EPA's comment.

Day 90 for the project is June 2, 2001.

I recommend your approval and signature.

FINAL DETERMINATION

Tampa Electric Company
Hookers Point Station
Installation of 30 Internal Combustion Engines
DEP File Number 0570038-002-AC

An Intent to Issue an Air Construction Permit to Tampa Electric Company Hookers Point Station, located at 1700 Hemlock Street, Tampa, Hillsborough County, Florida, was distributed on March 30, 2001. The Public Notice of Intent to Issue Air Construction Permit was published in the Tampa Tribune on April 4, 2001. Copies of the draft air construction permit were available for public inspection at the Department offices in Tampa and Tallahassee.

The Environmental Protection Agency (EPA) submitted a comment regarding the netting analysis for the project. EPA suggests the final permit should contain practically enforceable limits on fuel oil consumption and/or hours of operation, which correspond to 582 tons per year (tpy) of NO_x emissions from the IC engines.

The Department in agreement with the applicant will modify the permit to restrict the hours of operation of the 30 IC engines to 22,100 hours per year cumulative. This corresponds to 582 tpy of NO_x emissions from the 30 IC engines. The changes will be reflected in Specific Condition 12 and 14 for Emission Units 007-036, and Specific Condition 2 for Emission Units 001-006.

Specific Condition 12 will be changed to:

Fuel Oil Consumption: The maximum No. 2 fuel oil allowed to be burned in thirty internal combustion engines combined is ~~3,180,152~~ 2,713,880 gallons per year, which is equivalent to ~~25,897~~ 22,100 engine-hours per year at 100% load. **[Rule 62-210.200, F.A.C. (Definitions-PTE)]**

Specific Condition 14 will be changed to:

Hours of Operation: The thirty internal combustion engines shall operate no more than ~~25,897~~ 22,100 engine-hours during any consecutive 12-month period. The permittee shall install, calibrate, operate and maintain a monitoring system to measure the hours of operation on each internal combustion engine. **[Rule 62-210.200, F.A.C. (Definitions-PTE)]**

Specific Condition 2 will be changed to:

For each 12-month period that the thirty internal combustion engines (EU007-EU036) operate below ~~25,897~~ 22,100 engine-hours, the existing emission units 001 through 006 may operate to reach the facility-wide NO_x cap of 682 tpy. NO_x emissions from the existing emission units (EU001-EU006) shall not exceed 100 tpy. The existing emission units shall use the CEM system to demonstrate compliance with the emission limits for NO_x. **[Rule 62-212.400, F.A.C. (PSD avoidance)]**

The Department in agreement with the applicant will modify Specific Conditions 20 and 21 relating to Emissions Performance Testing for Emission Units 007-036. Initial performance test will be required on a sample of five randomly picked IC engines for the first year and then a different randomly picked five from the remaining 25 IC engines for the second year. Annual testing will be required on only those IC engines that have operated more than 3,700 hours, which corresponds to 100 tons of NO_x emissions.

Specific Condition 20 will be changed to:

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 ~~one of the internal combustion engines~~ 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 25 (twenty five) internal combustion engines will be tested during the second year of operation. **[Rule 62-297.310(7)(a)1., and 62-297.310(7)(c), F.A.C.]**

Specific Condition 21 will be changed to:

Annual Performance Tests: To demonstrate compliance with the emission standards specified in this permit, the permittee shall conduct annual performance tests for NO_x and visible emissions on the emission units that operated for more than ~~400 hours~~ 3,700 hours in the preceding 12-month period. Tests required on an annual basis shall be conducted at least once during each federal fiscal year (October 1st to September 30th). **[Rule 62-297.310(7)(a)4., and 62-297.310(7)(c), F.A.C.]**

The Department in agreement with the applicant will make a change in the table, which gives the Emissions Unit Description preceding the specific conditions. The change removes the restriction of operating the IC engines only at 100 percent load.

The table will be changed to:

EU ID No.	Emissions Unit Description
001-006#	Six boilers that are fired using No. 6 fuel oil.
007-036*	30 Caterpillar XQ2000 Power Modules. Each Power Module consists of one Caterpillar 3516B 16-cylinder, 4-stroke cycle diesel internal combustion (IC) engine and one Caterpillar SR4B generator. The Caterpillar 3516B IC engine has a power rating of 2,593 brake horsepower (bhp) at 100 percent load. The Caterpillar SR4B generator has a power output rating of 1,825 kilowatts (kW) at 100 percent load. The IC engines will be fired exclusively with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil ~~and will only operate at 100 percent load~~.

The final action of the Department is to issue the permit with the changes noted above.

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APR 20 2001

BUREAU OF AIR REGULATION

April 19, 2001

Mr. A.A. Linero
New Source Review Section
Bureau of Air Regulation
Florida Department of Environmental Protection
111 South Magnolia Avenue, Suite 4
Tallahassee, FL 32301

Via FedEx
Airbill No. 7915 3265 4937

Re: DEP File No. 0570038-002-AC
Hookers Point Station - Installation of 30 Internal Combustion Engines

Dear Mr. Linero:

Tampa Electric Company has reviewed the letter dated April 17, 2001 from EPA regarding the above referenced project. The Agency is concerned that the netting analysis used to calculate the NO_x impacts as a result of operating the diesel oil fired internal combustion engine generators may not comport with the procedure as defined in 62-212.400(2)(e)(4)c., F.A.C. In order to resolve this issue, the Agency recommends that TEC limit the hours of engine operation such that the units, in aggregate, do not emit more than 582 tons of NOx per twelve month period. Based on an emission rate of 52.69-lb NO_x/hr, TEC calculates this limit to be 22,091 full load aggregate engine hours per twelve-month period. By emitting only 582 tons of NOx from the proposed mobile generators, TEC understands that it may still utilize the existing units serving Hookers Point such that they do not emit more than 100 tons per twelve-month period. As such, TEC accepts the suggestion of EPA to limit the emissions from the mobile generators to 582 tons of NOx per twelve-month period.

TEC appreciates the opportunity to comment on this issue and if you have questions, please feel free to call Shannon Todd or me at (813) 641-5125.

Sincerely,

Karen Sheffield

Karen Sheffield
General Manager
Hookers Point Station

EP\gm\
c: J. Kissel, SWD
J. Campbell, EPCHC
A. Harman, EPCHC
S. Arif, FDEP

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

APR 17 2001

4 APT-ARB

A. A. Linero, P.E.
FL Department of Environmental Protection
Mail Station 5500
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Linero:

Thank you for sending the preliminary determination and draft air construction permit for Hookers Point Station dated March 29, 2001. The preliminary determination is for the proposed installation and operation of 30 diesel fuel-fired internal combustion (IC) engines with a total nominal generating capacity of 54.75 MW to be located at an existing facility in Tampa, Florida. The existing facility currently operates six boilers which fire No. 6 fuel oil and on-specification used oil. As proposed, the project avoids prevention of significant deterioration (PSD) review for all pollutants by limiting the total facility emissions and restricting the new IC engines' hours of operation.

Based on our review of the preliminary determination and draft air construction permit, we feel that PSD has not been successfully avoided for the 30 new IC engines. Outlined below is the reason for this determination and possible remedies.

The preliminary determination and draft permit proposes a limit of 100 tons per year of nitrogen oxide (NO_x) emissions for the six existing boilers. This results in a 542.5 tons per year decrease in creditable NO_x emissions that can be used in a netting analysis. According to Rule 62-212.400(2)(e)(4)c., F.A.C., a creditable emissions decrease is a decrease in the actual emissions only if the old level of actual emissions exceeds the new level of actual emissions. In accordance with Rule 62-210.200(12)(c), F.A.C. for any emissions unit (other than an electric utility steam generating unit) which has not begun normal source operations on a particular date, actual emissions shall equal the potential emissions of the emissions unit on that date.

In the draft permit, Section III, condition 7 limits emissions from the combination of the existing boilers and the new IC engines to 682 tons per year of NO_x emissions. Potentially, the new IC engines could emit the entire 682 tons per year of NO_x emissions if the six existing boilers did not operate at all in the consecutive 12 month period. Therefore, a netting calculation would yield a net increase of 139.5 tons per year of NO_x emissions, which is greater than the PSD NO_x significant emission rate of 40 tons per year.

For the new IC engines to avoid PSD review for NO_x emissions, EPA suggests the final permit should contain practically enforceable limits on fuel oil consumption and/or hours of operation which correspond to 582 tons per year of NO_x emissions from the IC engines.

If you have any questions regarding these comments, please direct them to either Katy Forney at 404-562-9130 or Jim Little at 404-562-9118.

Sincerely,

for Gregg M. Worley

R. Douglas Neeley
Chief
Air and Radiation Technology Branch
Air, Pesticides and Toxics
Management Division

cc: S. Cauif.
C. Holladay
G. Kissel, SWD
B. Owen
J. Davis, ECT
G. Campbell, HCEPC
G. Bunyak

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BUREAU OF AIR REGULATION

April 10, 2001

Mr. Clair Fancy
Florida Department of Environmental Protection
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301

Via Fed Ex
Airbill No. 7900 2093 3727

Re: Tampa Electric Company (TEC) – Hookers Point Station
Mobile Generator Installation Air Construction Permit
Affidavit of Publication

Dear Mr. Fancy:

Please find enclosed the original Affidavit of Publication from the Tampa Tribune, as required by 62-110.106(5), F.A.C. This public notice was published in the legal section of the Tampa Tribune on Wednesday April 4, 2001. If you have any questions, please feel free to telephone Shannon Todd or me at (813) 641-5125.

Sincerely,

Laura R. Crouch
Manager-Air Programs
Environmental Affairs

EP\gm\SKT248

Enclosure

c: Mr. Tom Davis - ECT
Mr. Buck Oven, FDEP
Mr. Scott Sheplak, FDEP
Mr. Jerry Kissel - FDEP SW
S. Arif
C. Halladay
J. Campbell, HCEPC
G. Worley, EPA
G. Burnett, NPS

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THE TAMPA TRIBUNE
Published Daily
Tampa, Hillsborough County, Florida

State of Florida }
County of Hillsborough } ss.

Before the undersigned authority personally appeared J. Rosenthal, who on oath says that she is Classified Billing Manager of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a

LEGAL NOTICE

in the matter of

PUBLIC NOTICE OF INTENT

was published in said newspaper in the issues of

APRIL 4, 2001

Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, this advertisement for publication in the said newspaper.

J. Rosenthal

Sworn to and subscribed by me, this 6 day of APRIL, A.D. 20 01

Personally Known ✓ or Produced Identification

Type of Identification Produced

NOTARY PUBLIC STATE OF FLORIDA
OFFICIAL NOTARY SEAL
SUSIE LEE BLATON
COMMISSION NUMBER
CC639424
MY COMMISSION EXP.
APRIL 16, 2001

Susie Lee Blaton

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT
STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DEP File No. 0570038-002-AC
Hookers Point Station,
Tampa Electric Company
Tampa, Hillsborough County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit to Tampa Electric Company (TEC), for the Hookers Point Station located at 1700 Hemlock Street, Tampa, Hillsborough County. The permit is to install thirty internal Combustion (IC) Engines, each rated at 1.825 MW nominal at the existing facility. A Best Available Control Technology (BACT) determination was not required pursuant to Rule 62-212.400, F.A.C, and 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The applicant's mailing address is: Tampa Electric Company, Post Office Box 111, Tampa FL 33601-0111.

In order to ensure that a BACT determination is unnecessary, the Department will apply a facility-wide emissions cap for nitrogen oxides (NOx) and limit the total operating hours for the thirty IC engines. The restriction in the operating hours will provide reasonable assurance that emissions of the remaining criteria pollutants will remain below the significant net emission increase thresholds. The Department will also restrict NOx emissions from the existing boilers to 100 tons per year. The Department will require the use of Continuous Emission Monitoring Systems (CEMS) for the measurement of NOx from the existing six boilers and run-time meters for the thirty IC engines. The IC engines will be fired exclusively with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil and will only operate at 100 percent load. The IC engines will operate for a period of two years primarily during summer and will cease operation in June 2003.

An air quality impact analysis was not conducted. Emissions from the facility will not consume PSD increment and will not significantly contribute to or cause a violation of any state or federal ambient air quality standards. The project has an insignificant impact on the Chassahowitzka PSD Class I area.

The Department will issue the Final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of 14 (fourteen) days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change to the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

Part I

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S. before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes, must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

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

Part II

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

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

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Protection
Bureau of Air Regulation
Suite 4, 111 S. Magnolia Drive
Tallahassee, Florida 32301
Telephone: 850/488-0114
Fax: 850/922-6979

Dept. of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-8218
Telephone: 813/744-6100
Fax: 813/744-6084

Hillsborough County
Environmental Protection Commission
1900 Ninth Avenue
Tampa, Florida 33605
Telephone: 813/272-5960
Fax: 813/272-5157

The complete project file includes the application, technical evaluations, Draft permit, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Source Review Section, at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

2060 4/4/01

Part III

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BUREAU OF AIR REGULATION

February 15, 2001

Mr. Syed Arif
New Source Review Section
Florida Department of Environmental Protection
111 South Magnolia Drive, Suite 4
Tallahassee, FL 32301

Via FedEx
Airbill No. 7919 7422 6668

Re: Tampa Electric Company (TEC) – Hookers Point Station
Temporary Generation Project

Dear Mr. Arif:

Per our telephone conversation on February 14, 2001, I have enclosed the revised page from the permit application addressing the above referenced project. In addition, I have included the operating hours for all six Hookers Point boilers for 1998 and 1999 in the table below. As the data demonstrates, the hours of operation for the station vary normally due to increased demand and normal weather fluctuations.

	Unit 1 [hours/year]	Unit 2 [hours/year]	Unit 3 [hours/year]	Unit 4 [hours/year]	Unit 5 [hours/year]	Unit 6 [hours/year]
1998	1,553	1,404	1,467	1,878	1,954	1,028
1999	1,334	1,156	1,864	2,087	2,460	1,712
Average	**1,444**	**1,280**	**1,666**	**1,983**	**2,207**	**1,370**

Thank you for your continued effort in processing the permit application. If you have any questions, please telephone me at (813) 641-5125.

Sincerely,

Shannon K. Todd
Environmental Engineer
Environmental Affairs

EP\gm\SKT238

Enclosure

c(enc) Mr. Jerry Campbell, EPCHC
Mr. Scott Sheplak, FDEP
Mr. Syed Arif, FDEP
Mr. Bill Thomas, FDEP - SWD

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Construction/Modification Information

1. Description of Proposed Project or Alterations:

Project consists of the addition of thirty (30) Caterpillar XQ2000 Power Modules. Each Power Module consists of one Caterpillar 3516B 16-cylinder, 4-stroke cycle diesel internal combustion (IC) engine and one Caterpillar SR4B generator. The Caterpillar 3516B IC engine has a power output rating of 2,593 brake horsepower (bhp) at 100% load. The Caterpillar SR4B generator has a power output rating of 1,825 kilowatts (kW) at 100% load.

The Caterpillar 3516B IC engines will be fired exclusively with low sulfur (maximum of 0.05 weight % sulfur) diesel fuel oil and will only operate at 100% load. The 30 Caterpillar XQ2000 Power Modules will be operated in conjunction with existing Hookers Point Units 1 through 6 such that total Hookers Point Station emissions will remain below the PSD significant emission rate thresholds for major modifications. Assuming no operation of the existing Hookers Point Station units, the 30 IC engines will operate no more than a total of 25,897 engine-hours per year.

2. Projected or Actual Date of Commencement of Construction: **March 1, 2001**

3. Projected Date of Completion of Construction: **May 1, 2001**

Application Comment

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**16.8**	mmBtu/hr		
2. Maximum Incineration Rate:		lb/hr		tons/day
3. Maximum Process or Throughput Rate:				
4. Maximum Production Rate:				
5. Requested Maximum Operating Schedule:				
	24	hours/day	**7**	days/week
	52	weeks/year	*	hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

* **The 30 Caterpillar XQ2000 Power Modules will be operated in conjunction with existing Hookers Point Units 1 through 6 such that total Hookers Point Station emissions will remain below the PSD significant emission rate thresholds for major modifications. Assuming no operation of the existing Hookers Point Station units, the 30 IC engines will operate no more than a total of 25,897 engine-hours per year.**

See Attachment E. for details.

7.

LWG **Lake Worth Generation, LLC**

February 15, 2001

Mr. C. H. Fancy, P.E., Chief
Bureau of Air Regulation
New Source Review Section
Florida Department of Environmental Protection
Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Subject: DEP File No. 099-0568-001-AC / PSD-FL-266
Lake Worth Generation, L.L.C. Combined Cycle Project

Attention: A. A. Linero, P.E., Administrator, New Source review Section

Dear Mr. Linero:

Please be informed that Lake Worth Generation, LLC ("LWG) has notified the Department's Southeast District Office that the project has commenced construction according to the definition in Rule 62-210.200 F.A.C. (please see attached letter). LWG has entered into substantial contracts (described below) as part of a continuous program for the construction of the facility, which have substantial penalties if canceled or modified.

Under the terms of the Permit, LWG will require an extension of the expiration date of the above referenced permit. As identified in the permit application and described in the description of the emission units, the Lake Worth Generation Project is the repowering of several existing units at the City of Lake Worth's Tom G. Smith Power Plant with modern combined cycle technology. Prior to and since the issuance of the air construction permit in November 1999, substantial engineering work has been performed to evaluate the existing status of the equipment and the work necessary for interconnection with the combined cycle unit and utility grid. The final issuance of the air construction permit that included a modification to the VOC emissions for the duct burner system was effective on August 30, 2000.

Interconnection of the combined cycle unit will require both demolition of certain existing facilities and relocation of certain utilities. In addition, as the available space within the existing power plant site is limited, certain facilities must be relocated. Activities that have been performed and completed include:

- Location of a 10 acre alternative site for City of Lake Worth Public Works Department,
- Contracting for the alternative site,
- Annexation by the City of the alternative site,
- Rezoning by the City of the alternative site, and
- Filing for permits and approvals for the alternative site.
- Payments to the City of Lake Worth for relocation of buildings

117 College Street, P.O. Box 531, Lake Worth, FL 33460 **Tel (561) 586-7213** **Fax (561) 586-3956**
245 Winter Street, Suite 300, Waltham, MA 02451 **Tel (781) 371-1500** **Fax (781) 370-1594**

Additional activities associated with the coordination of relocating City employees will include the time necessary for the physical move of the Public Works Department and demolition of the existing facilities.

The LWG has signed a contract and provided significant payments for the General Electric Frame 7FA combustion turbine for the project. The contract for the turbine is dated August 13, 1999 and its delivery is scheduled for shipment January 2002. In addition, the project has contracted with the Florida Public Utilities Company in a Gas Transportation Agreement dated July 21, 2000 for the natural gas pipeline lateral to the site. Rights-of-way have been obtained and physical construction on this interconnection with the Florida Gas Transmission Pipeline will begin shortly. Notice to proceed with construction was released to FPUC on February 13, 2001

Taken together, these activities require an extension of the expiration of the permit to accommodate the completion of construction and final testing of the combined cycle unit. Since construction at an existing site is more difficult, the physical construction effort is expected to take 30 months. The requested expiration date is December 31, 2003. This timeframe allows LWG to make application for a Title V permit at least 90 days prior to the expiration of the air construction permit. Upon completion, the project will comply with the standards and conditions of the air construction permit and applicable regulations.

Your expeditious handling of this permit extension would be appreciated. Please contact us should you require additional information.

Sincerely,

Brian Chatlosh
Manager

cc: Paul Doherty, P.E., LWG
Kennard Kosky, P.E., Golder Associates
Len Shapiro, Energy Resources Group, Inc.
Joseph A. McGlothin, McWirter, Reeves, McGlothlin, Davidson, Rief and Bakas, P.A.

117 College Street, P.O. Box 531, Lake Worth, FL 33460 Tel (561) 586-7213 Fax (561) 586-3956
245 Winter Street, Suite 300, Waltham, MA 02451 Tel (781) 371-1500 Fax (781) 370-1594

LWG **Lake Worth Generation, LLC**

February 15, 2001

RECEIVED

FEB 16 2001

BUREAU OF AIR REGULATION

Florida Department of Environmental Protection
Southeast District Office
400 North Congress Avenue
West Palm Beach, FL 33401

Subject: DEP File No. 099-0568-001-AC / PSD-FL-266
Lake Worth Generation, L.L.C. Combined Cycle Project
Notification of Commencing Construction

Attention: Mr. Isadore Goldman, P.E., Administrator Air Resources Management

Dear Mr. Goldman:

Lake Worth Generation, L.L.C.("LWG") hereby provides notification pursuant to 40 CFR Part 60, Section 60.7(a)(1) that the facility has commenced construction. LWG has entered into a substantial number of binding Project contracts among which contracts include the release for Nepco Construction's engineering work of onsite modifications, demolition and utility relocation, production release of the General Electric combustion turbine generator unit, and construction of an approximate seven (7) mile Project dedicated natural gas pipeline from the Florida Gas Transmission pipeline to the Project site. Notice to proceed with the PSC approved pipeline contract was released to Florida Public Utilities Company on February 13th, 2001.

Copies of this notice are being provided to Palm Beach County Health Department and EPA Region IV.

Please contact us if you should require any additional information.

Sincerely,

Brian Chatlosh
Manager

cc: Palm Beach County Health Department, Air Pollution Control Section
Environmental Protection Agency Region IV, Air Programs Branch

addresses: Palm Beach County Health Department
Air Pollution Control Section
P.O. Box 29
West Palm Beach, FL 33402-0029

Environmental Protection Agency Region IV
Air Programs Branch
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303

245 Winter Street, Suite 300, Waltham, MA 02451 **Tel (781) 371-1500** **Fax (781) 370-1594**
117 College Street, P.O. Box 531, Lake Worth, FL 33460 **Tel (561) 586-7213** **Fax (561) 586-3956**

MS 5505

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

CERTIFIED MAIL

7099 3400 0000 1449 4338

UNCLAIMED

RETURN TO SENDER

UNCLAIMED

RETURN TO SENDER

NAME
1st Notice 2-01-2001
2nd Notice 2-06-2001
Return 2-11-2001

UNCLAIMED

Mr. Darryl Scott
General Manager
Tampa Electric Company
1700 Hemlock Street
Tampa, Fl 33605-6660

UNCLAIMED

33605-6660

7099 3400 0000 1449 4338

U.S. Postal Service

CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

Article Sent To:

Mr. Darryl Scott

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

Name (Please Print Clearly) (to be completed by mailer)

Mr. Darryl Scott

Street, Apt. No., or PO Box No.

1700 Hemlock St

City, State, ZIP+4

Tampa, FL 33605-6660

PS Form 3800, July, 1999 — See Reverse for Instructions

Department of Environmental Protection

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

Jeb Bush
Governor

David B. Struhs
Secretary

January 30, 2001

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Darryl Scott
General Manager
Tampa Electric Company
1700 Hemlock Street
Tampa, Florida 33605-6660

Re: Request for Additional Information
DEP File No. 0570038-002-AC
Hookers Point Station - Installation of 30 internal combustion engines

Dear Mr. Scott:

On January 23, 2001 the Department received your application for a modification to the air construction permit for the existing Hookers Point Facility. This modification is intended to add thirty internal combustion engines to the facility. The application is incomplete. In order to continue processing your application, the Department will need the additional information requested below. Should your response to any of the below items require new calculations, please submit the new calculations, assumptions, reference material and appropriate revised pages of the application form.

1. Page 14 of the application requests 8,760 hours per year operation for the referenced internal combustion engines. Based on full time operation of the engines, the facility will not have enough offsets available, specifically for NO_x, to remain below the PSD significant emission rate thresholds for major modification. If the intent of the project is to limit the hours of operation of the thirty internal combustion engines, then resubmit the maximum operating schedule and recalculate emissions for all the affected pollutants.
2. If available, please provide emissions data for the six boilers for the year 2000. Also, provide the operating hours history for all six boilers. Please explain the reasons for the pollutant emissions, specifically NO_x and SO_2, to be high in 1999 for boilers number 3, 4, 5 and 6 as compared to other years.
3. The Caterpillar Diesel Generator Set Performance Data as submitted with the application indicates that the diesel engine NO_x emission limit in California is 6.9 g/hp-hr whereas for this project an emission limit of 9.22 g/hp-hr is being proposed. Please indicate if the California emission limit is established with some add-on controls. If not, then why is the same limit not proposed for this project.

The Department will resume processing your application after receipt of the requested information. Rule 62-4.050(3), F.A.C. requires that all applications for a Department permit must be certified by a professional engineer registered in the State of Florida. This requirement also applies to responses to Department requests for additional information of an engineering nature. Material changes to the application should also be accompanied by a new certification statement by the authorized representative or responsible official. Permit applicants are advised that Rule 62-4.055(1), F.A.C. now requires applicants to respond to requests for information within 90 days. We are still waiting for comments from the Southwest District as well as Hillsborough County. Those comments will be forwarded to you as soon as we receive them. If there are any questions, please call Syed Arif at 850/921-9528.

Sincerely,

1/30

A.A. Linero, P.E. Administrator
New Source Review Section

AAL/sa

cc: J. Kissel, SWD
J. Campbell, EPCHC
T. Davis, ECT
S. Todd, TEC

TAMPA ELECTRIC

January 22, 2001

Mr. Clair Fancy
Florida Department of Environmental Protection
2600 Blair Stone Road
Twin Towers Office Building
Tallahassee, Florida 32399-2400

Via Fed Ex
Airbill No. 7904 5117 9175

Re: Hookers Point Mobile Generation Project

Dear Mr. Fancy:

Please find enclosed four signed, sealed copies of the Hookers Point Temporary Generation Air Construction Permit Application. This project involves the installation of thirty low sulfur Number 2 diesel oil fired internal combustion engine generators. Each unit can produce up to 1.850 MW at when fully loaded. This additional generation will help Tampa Electric Company meet an increasing system demand during the summer of 2001 and possibly beyond. If you have questions, please contact Shannon Todd or me at (813) 641-5125.

Sincerely,

Darryl Scott
General Manager
Hookers Point Station

EP\gm\SKT225

Enclosure

c/enc: Mr. Alvaro Linero -FDEP
Mr. Jerry Kissel - FDEP SW
Ms. Alice Harman - EPCHC

TAMPA ELECTRIC

RECEIVED
APR 03 2002
BUREAU OF AIR REGULATION

April 1, 2002

Mr. Syed Arif, P.E.
New Source Review Section
Florida Department of Environmental Protection
111 South Magnolia Drive, Suite 4
Tallahassee, FL 32301

Via FedEx
Airbill No. 7905 0496 6932

Re: Tampa Electric Company
Hookers Point Station
Temporary Mobile Generation Project
0570038-002-AC

Dear Mr. Arif:

Through this letter, Tampa Electric Company (TEC) is requesting to modify the air construction permit associated with the Temporary Mobile Generation Project at Hookers Point Station. Specifically, TEC is requesting the Department of Environmental Protection Agency's (the Department) approval to omit the sentence(s) limiting the operational period to June 2003. TEC is not requesting any additional annual operating hours or an increase in permitted capacity. In order to provide reasonable assurance that this request will comply with the permit limit, TEC will not operate the existing emission units (Emission Units ID Nos. 001-006) simultaneously with the internal combustion engines.

In addition, TEC expects to permanently retire the existing emission units as of January 1, 2003. This change will be reflected in the Hookers Point Title V renewal application that will be submitted to the Department by July 5, 2002.

If you have any questions, please call me at (813) 641-5034.

Sincerely,

Dru Latchman

Dru Latchman
Associate Engineer
Environmental Affairs

EA/bmr/DNL114

c: Scott Sheplak, FDEP
Jerry Kissel, FDEP – SW

TAMPA ELECTRIC COMPANY
P. O. BOX 111 TAMPA, FL 33601-0111
(813) 228-4111

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OUTSIDE HILLSBOROUGH COUNTY 1 (888) 223-0800

Department of Environmental Protection

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

Jeb Bush
Governor

David B. Struhs
Secretary

March 29, 2001

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Darryl Scott
General Manager
Hookers Point Station
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111

Re: DEP File No. 0570038-002-AC
Hookers Point Station – Installation of 30 Internal Combustion Engines

Dear Mr. Scott:

Enclosed is one copy of the Draft air construction permit for the installation of 30 Internal Combustion Engines to be located at 1700 Hemlock Street, Tampa, Hillsborough County. The Technical Evaluation and Preliminary Determination, the Department's Intent to Issue Air Construction Permit and the Public Notice of Intent to Issue Air Construction Permit are also included.

The Public Notice of Intent to Issue Air Construction Permit must be published one time only, as soon as possible, in the legal advertisement section of a newspaper of general circulation in the area affected, pursuant to the requirements Chapter 50, Florida Statutes. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within seven days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit.

Please submit any written comments you wish to have considered concerning the Department's proposed action to A. A. Linero, P.E., Administrator, New Source Review Section at the above letterhead address. If you have any other questions, please contact Syed Arif, P.E. at 850/921-9528.

Sincerely,

C. H. Fancy, P.E., Chief,
Bureau of Air Regulation

CHF/sa

Enclosures

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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. Darryl Scott, Gen. Mgr.
Hookers Point Station
Tampa Electric Company
PO Box 111
Tampa, FL 33601-0111

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* B. Date of Delivery 4/4/7

C. Signature
X ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)*
7099 3400 0000 1449 2501

PS Form 3811, July 1999 Domestic Return Receipt 102595-00-M-0952

7099 3400 0000 1449 2501

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

Article Sent To:
Mr. Darryl Scott, Gen. Mgr.

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	--
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

Name (Please Print Clearly) (to be completed by mailer)
Mr. Darryl Scott
Street, Apt. No., or PO Box No.
PO Box 111
City, State, ZIP+4
Tampa, FL 33601-0111

PS Form 3800, July 1999 See Reverse for Instructions

In the Matter of an
Application for Permit by:

Darryl Scott, General Manager
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111

DEP File No. 0570038-002-AC
Hookers Point Station
Hillsborough County

INTENT TO ISSUE AIR CONSTRUCTION PERMIT

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit (copy of Draft permit attached) for the proposed project, detailed in the application specified above and the enclosed Technical Evaluation and Preliminary Determination, for the reasons stated below.

The applicant, Darryl Scott, General Manager, applied on January 23, 2001, to the Department for an air construction permit for its Hookers Point Station located at 1700 Hemlock Street, Tampa, Hillsborough County. The permit is to install thirty internal combustion engines collectively rated at 54.75 MW nominal at the existing facility.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that an air construction permit is required to install the thirty internal combustion engines at the existing facility.

The Department intends to issue this air construction permit based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1., F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Construction Permit. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax 850/ 922-6979). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rules 62-110.106(9) & (11), F.A.C.

The Department will issue the final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of 14 (fourteen) days from the date of publication of Public Notice of Intent to Issue Air Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

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

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

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

Mediation is not available in this proceeding.

In addition to the above, a person subject to regulation has a right to apply for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542 F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition

must specify the following information: (a) The name, address, and telephone number of the petitioner; (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any; (c) Each rule or portion of a rule from which a variance or waiver is requested; (d) The citation to the statute underlying (implemented by) the rule identified in (c) above; (e) The type of action requested; (f) The specific facts that would justify a variance or waiver for the petitioner; (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section 120.542(2) F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the EPA and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Executed in Tallahassee, Florida.

C. H. Fancy, P.E., Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Intent to Issue Air Construction Permit (including the Public Notice of Intent to Issue Air Construction Permit, Technical Evaluation and Preliminary Determination, and the Draft permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 3/30/01 to the person(s) listed:

Mr. Darryl Scott, General Manager, Hookers Point Station *
Mr. Thomas W. Davis, P.E. Environmental Consulting & Technology, Inc.
Mr. Jerry Kissel, SWD-DEP
Mr. Jerry Campbell, EPCHC
Mr. Gregg Worley, EPA
Mr. John Bunyak, NPS

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.

Charlotte J. Hayes 3/30/01
(Clerk) (Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP File No. 0570038-002-AC

Hookers Point Station, Tampa Electric Company
Tampa, Hillsborough County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit to Tampa Electric Company (TEC), for the Hookers Point Station located at 1700 Hemlock Street, Tampa, Hillsborough County. The permit is to install thirty Internal Combustion (IC) Engines, each rated at 1.825 MW nominal at the existing facility. A Best Available Control Technology (BACT) determination was not required pursuant to Rule 62-212.400, F.A.C. and 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The applicant's mailing address is: Tampa Electric Company, Post Office Box 111, Tampa FL 33601-0111.

In order to ensure that a BACT determination is unnecessary, the Department will apply a facility-wide emissions cap for nitrogen oxides (NO_x) and limit the total operating hours for the thirty IC engines. The restriction in the operating hours will provide reasonable assurance that emissions of the remaining criteria pollutants will remain below the significant net emission increase thresholds. The Department will also restrict NO_x emissions from the existing boilers to 100 tons per year. The Department will require the use of Continuous Emission Monitoring Systems (CEMS) for the measurement of NO_x from the existing six boilers and run-time meters for the thirty IC engines. The IC engines will be fired exclusively with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil and will only operate at 100 percent load. The IC engines will operate for a period of two years primarily during summer and will cease operation in June 2003.

An air quality impact analysis was not conducted. Emissions from the facility will not consume PSD increment and will not significantly contribute to or cause a violation of any state or federal ambient air quality standards. The project has an insignificant impact on the Chassahowitzka PSD Class I area.

The Department will issue the Final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of 14 (fourteen) days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections

NOTICE TO BE PUBLISHED IN THE NEWSPAPER

Memorandum

Florida Department of
Environmental Protection

TO: Clair Fancy

FROM: Syed Arif

DATE: March 28, 2001

SUBJECT: Hookers Point Station – Installation of 30 Internal Combustion Engines

Attached for approval and signature is a construction permit to Tampa Electric Company for the Hookers Point Station, located in Tampa, Hillsborough County. The permit is to install thirty Internal Combustion (IC) Engines each rated at 1.825 MW nominal. The thirty engines will be capable of producing 54.75 MW of electricity. The IC engines will be fired exclusively with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil and will only operate at 100 percent load.

The applicant proposes to install these 30 IC Engine/Generator sets and will utilize these diesel generators more than their existing six boilers that primarily burn No. 6 fuel oil. The applicant has accepted restriction on the hours of operation for the 30 IC engines and a 100-ton cap on NO_x emissions from the existing six boilers. The restriction in the operating hours will provide reasonable assurance that emissions of the remaining criteria pollutants will remain below the significant net emission increase thresholds. The Department will require the use of Continuous Emission Monitoring Systems (CEMS) for the measurement of NO_X from the existing six boilers and run-time meters for the thirty IC engines. The IC engines will be operated for two years primarily during the peak summer demand, and will cease operation in June 2003. The existing boilers will continue to operate beyond that period but will have a 100-ton cap on NO_x emissions.

I recommend your approval and signature.

March 28, 2001 is day 50 of the 90-day timeclock.

Attachments

/sa

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

P.E. Certification Statement

Tampa Electric Company
Hookers Point Station
Hillsborough County

DEP File No.: 0570038-002-AC
Facility ID No.: 0570038

Project Type: Air Construction Permit for the installation of 30 Internal Combustion Engines. In order to ensure that a BACT determination is unnecessary, the Department will apply a facility-wide emissions cap for nitrogen oxides (NO_x) and limit the total operating hours for the thirty IC engines. The restriction in the operating hours will provide reasonable assurance that emissions of the remaining criteria pollutants will remain below the significant net emission increase thresholds. The Department will also restrict NO_x emissions from the existing boilers to 100 tons per year. The Department will require the use of Continuous Emission Monitoring Systems (CEMS) for the measurement of NO_X from the existing six boilers and run-time meters for the thirty IC engines. The IC engines will be fired exclusively with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil and will only operate at 100 percent load. The IC engines will operate for a period of two years primarily during summer and will cease operation in June 2003.

I HEREBY CERTIFY *that the engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).*

Syed Arif, P.E.
Registration Number: 51861

3/28/01
Date

Department of Environmental Protection
Bureau of Air Regulation
New Source Review Section
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301
Phone (850) 488-0114
Fax (850) 922-6979

120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

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

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

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

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Protection Bureau of Air Regulation Suite 4, 111 S. Magnolia Drive Tallahassee, Florida, 32301 Telephone: 850/488-0114 Fax: 850/922-6979	Dept. of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619-8218 Telephone: 813/744-6100 Fax: 813/744-6084	Hillsborough County Environmental Protection Commission 1900 Ninth Avenue Tampa, Florida 33605 Telephone: 813/272-5960 Fax: 813/272-5157

The complete project file includes the application, technical evaluations, Draft permit, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Source Review Section, at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

NOTICE TO BE PUBLISHED IN THE NEWSPAPER

TECHNICAL EVALUATION

AND

PRELIMINARY DETERMINATION

Tampa Electric Company

Hookers Point Station

Hillsborough County

DEP File No. 0570038-002-AC

Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation

March 28, 2001

1. GENERAL INFORMATION

1.1 APPLICANT NAME AND ADDRESS

Tampa Electric Company
Hookers Point Station
1700 Hemlock Street
Tampa, Florida 33605-6660

Authorized Representative: Darryl Scott, General Manager

1.2 REVIEWING AND PROCESS SCHEDULE

January 23, 2001	Received permit application
January 30, 2001	Request For Additional Information
February 7, 2001	Application complete

2. FACILITY INFORMATION

2.1 FACILITY LOCATION

The facility is located in Tampa, Hillsborough County. The UTM coordinates are Zone 17; 358 km E; 3091 km N. This site is approximately 85 kilometers from Chassahowitzka Wildlife Refuge, a Class I PSD Area.

2.2 STANDARD INDUSTRIAL CLASSIFICATION CODES (SIC)

Industry Group No.	49	Electric, Gas and Sanitary Services
Industry No.	4911	Electric Services

2.3 FACILITY CATEGORY

The existing facility consists of six oil-fired steam boilers (Units Nos. 1 through 6) at the Hookers Point Station located at 1700 Hemlock Street, Tampa, Hillsborough County. All the boilers are fired using No. 6 fuel oil. The boilers may also fire a limited quantity of on-specification used oil. The total generating capacity at this facility is 227 megawatts. Also located at this facility are miscellaneous unregulated/insignificant emissions units and/or activities. Operation of the existing steam boilers is currently authorized by Title V Final Permit No. 0570038-001-AV. Final Title V Permit was issued with an effective date of January 1, 1998 and expires on January 1, 2002.

This facility is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM_{10}), sulfur dioxide (SO_2), nitrogen oxides (NO_X), carbon monoxide (CO), or volatile organic compounds (VOC) exceeds 100 tons per year (TPY).

This facility is within an industry included in the list of the 28 Major Facility Categories per Table 62-212.400-1, F.A.C. Because emissions are greater than 100 TPY for at least one criteria pollutant, the facility is also a Major Facility with respect to Rule 62-212.400, Prevention of Significant Deterioration (PSD). Based upon the Title V application, the facility is not a major source of hazardous air pollutants (HAPs).

3. PROJECT DESCRIPTION

This project addresses the following new emissions units:

Emissions Unit No.	Emissions unit Description
007 - 036	30 Caterpillar XQ2000 Power Modules. Each Power Module consists of one Caterpillar 3516B 16-cylinder, 4-stroke cycle diesel internal combustion (IC) engine and one Caterpillar SR4B generator. The Caterpillar 3516B IC engine has a power rating of 2,593 brake horsepower (bhp) at 100 percent load. The Caterpillar SR4B generator has a power output rating of 1,825 kilowatts (kW) at 100 percent load. The IC engines will be fired exclusively with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil and will only operate at 100-percent load.

The applicant proposes to install these 30 IC Engine/Generator Sets and will accept restrictions on hours of operation for the IC engines, a cap on NO_x emissions of 100 tpy on the existing six boilers and a facility-wide limit on NO_x emissions of 682 tpy so as to net out of PSD review for all pollutants. A further review of the Potential To Emit and netting analysis follows.

4. PROJECT EMISSIONS

4.1 MAXIMUM POTENTIAL TO EMIT

The following table summarizes the potential maximum project emissions increases of pollutants at the facility:

Pollutant	Emission limit	TPY[1]	Avg. Emissions for 98,99 from 6 boilers, TPY	Increase in emissions TPY	PSD Significant Emission Rates (TPY)	Subject to PSD Review?
NO_X	52.7 lb/hr	682.4	642.5	39.9	40	NO
CO	1.0 lb/hr	12.9	44.2	N/A	100	NO
VOC	1.0 lb/hr	12.9	7.3	5.6	40	NO
SO_2	1.0 lb/hr	12.9	1525	N/A	40	NO
PM_{10}	0.5 lb/hr	6.5	192.5	N/A	15	NO

[1] Based upon diesel fuel firing only and 25,897 total operating hours/year/30engines

The proposed project (without the proposed NO_X emissions cap and operating hours restrictions) will result in "significant increases" with respect to Table 62-212.400-2, F.A.C., of emissions of NO_X. The project as prescribed may therefore only be considered a minor source in the event that operating restrictions are accepted for NO_X.

4.2 NETTING ANALYSIS

Contemporaneous emission increases and decreases are based on actual emission rates. The term actual emissions are defined by Rule 62-210.200(12), F.A.C. For new emission units, actual emissions are equal to potential emissions. For changes to existing emission units, actual emissions are generally the actual average emission rates, in tpy, for the two-year period preceding the change and which are representative of normal operations. The Department may allow the use of a different time period if it is determined that the other time period is more representative of the normal operation of an emissions unit.

In accordance with Rule 62-212.400(2)(e)3., F.A.C., the contemporaneous period for a modification project begins five years prior to the date of submittal of a complete permit application and ends when the new or modified units are estimated to begin operation. For the proposed IC engine project, the contemporaneous period is projected to begin in January 1996 and end in May 2001. Creditable emission decreases that will occur within this contemporaneous period consist of the actual emissions associated with the reduced operations of existing Units 1 through 6. Creditable emission increases consist of those associated with the 30 new IC engines. Tampa Electric Company (TEC) proposes to establish a facility-wide emissions cap as well as emissions cap for the existing six boilers such that the total station emissions (i.e., existing Units 1 through 6 and the 30 new IC engines) will remain below the PSD significant emission rate thresholds for major modifications.

TEC proposes to limit the existing six boilers to 100 tpy and the total Hookers Point Station annual NO_x emissions to 682 tpy to ensure that operation of the 30 new IC engines, together with existing Units 1 through 6, does not result in a significant emission rate increase. The proposed Hooker Points Station NO_x cap of 682 tpy is based on the 1998/1999 historical average of 642.5 tpy for Units 1 through 6 plus 39.9 tpy.

5. RULE APPLICABILITY

This facility is located in an area designated, in accordance with Rule 62-204.340, F.A.C., as attainment for all pollutants.

Rule 62-4.030, F.A.C., prohibits modification of any existing emissions unit without first receiving a permit. It further specifies that a permitted installation may only be modified in a manner that is consistent with the terms of

such a permit. Rule 62-210.200, F.A.C., defines "modification" to mean generally a change that results in an increase in actual emissions of regulated air pollutants. Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C., also reiterate the requirement for construction permits. The emission unit affected by this permit shall comply with all applicable provisions of the Florida Administrative Code.

6. AIR POLLUTION CONTROL METHODS

The applicant proposes to limit NO_X emissions for the existing six boilers and through the use of a facility-wide NO_X cap for the six boilers plus the 30 IC engines. The applicant will also restrict the total hours of operation of the 30 IC engines in order to comply with the facility-wide NO_x cap. The 30 IC engines will be utilized until June 2003 and mostly during summer months when the demand for power is at its peak. After June 2003, when the 30 IC engines have been removed, the Hookers Point Station will have the capability of operating the existing six boilers but with a NO_x emissions cap of 100 tpy. The facility will use the CEM's to show compliance with the 100-tpy NO_x limit.

6.1 DEPARTMENT DETERMINATION

The Department has determined that the restriction of NO_x emissions from the existing six boilers to 100 tpy and application of a facility-wide cap of 682 tpy for NO_X emissions will eliminate the need for a PSD review for that pollutant. The Department has further determined that an additional limit on the total operating hours for the 30 IC engines will provide reasonable assurance that emissions of the remaining PSD pollutants will remain below the significant net emission increase thresholds. Therefore, the 30 IC engines shall be limited to a total of 25,897 engine-hours. In the event total IC engine annual operating hours were less than the 25,897 engine-hours limit in any particular 12-month period, TEC will have the option to operate existing units 1 through 6 to reach the facility-wide cap for NO_x emissions of 682 tons so long as the 100-ton cap is not exceeded for the six boilers.

Compliance with the 100-ton NO_x cap can be verified using the existing Unit 1 through 6 NO_x CEMS. Compliance with the facility-wide NO_x cap can be verified using run-time meters for the IC engines. The operating hours of the IC engines can be converted to total NO_x emissions from the IC engines by using the emission rate of 53 lb NO_x/hr. The sum of the NO_x emissions from the existing boilers and IC engines will provide the total NO_x emissions from the facility. The combination of these two emission limits causes the new emission units to be considered as a minor source (for all criteria pollutants) from a PSD perspective.

The applicant has agreed in removing the 30 IC engines in June 2003. The applicant has also consented in operating the existing boilers with the IC engines only under peak demand conditions when there is a need to satisfy the native load. Under normal operating conditions, either the boilers or the IC engines will operate individually. After the removal of the 30 IC engines, the facility will be restricted to 100 tons of NO_x emissions per year from the six boilers. This will be verified by Unit 1 through 6 NO_x CEMS.

The Department's determination to allow TEC to operate in this manner is based on the following reasons:

(1) The existing boilers do not have an emission limit for NO_x. By restricting the existing boilers to emit no more than 100-tpy of NO_x will be very beneficial for the environment.

(2) The IC engines will be burning fuel oil with a 0.05 weight percent sulfur limit. The reductions in SO_2 emissions from restricted operation of the existing boilers will amount to 1500 tpy.

(3) The 30 IC engines will be utilized mostly to meet the summer peak demand for power. The 30 IC engines will be used only until June 2003, after which the facility will be restricted to operating the six boilers with a 100-tpy NO_x cap.

(4) The facility has agreed in not operating the IC engines and the existing boilers simultaneously. They will be operated simultaneously only to satisfy the native load and to prevent interrupting power to the customers. Records will be provided to the Department, upon request, to validate such incidences.

6.2 ADDITIONAL COMPLIANCE PROCEDURES

Pollutant	Compliance Procedure
NO_X emission limit	EPA Method 7 or 7E (Initial) on one of the 30 IC engines and (Annual) on IC engines that operated for more than 400 hours. *Established to avoid PSD* NO_X CEMS data used for annual compliance with NO_x emissions cap for Units 1 through 6. *Established to avoid PSD*

Specific permit conditions shall further describe these limitations.

7. CONCLUSION

Based on the foregoing technical evaluation of the application, additional information submitted by the applicant and other available information, the Department has made a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations.

Syed Arif, P.E. Review Engineer
Department of Environmental Protection, Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

PERMITTEE:

Tampa Electric Company
Hookers Point Station
1700 Hemlock Street
Tampa, Florida 33605-6660

ARMS Permit No.	0570038-002-AC
Facility ID No.	0570038
SIC No.	4911
Expires:	December 1, 2001

Authorized Representative:
Mr. Darryl Scott
General Manager

PROJECT AND LOCATION

The proposed project authorizes the installation of thirty internal combustion engines with electrical generator sets. The thirty engines are capable of producing a nominal 54.75 MW of electricity.

The project will be located in Hillsborough County at 1700 Hemlock Street, Tampa. The UTM coordinates are Zone 17, 358 km E, 3091 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

FACILITY DESCRIPTION

The existing facility consists of six oil-fired steam boilers (Units Nos. 1 through 6) at the Hookers Point Station located at 1700 Hemlock Street, Tampa, Hillsborough County. All the boilers are fired using No. 6 fuel oil. The boilers may also fire a limited quantity of on-specification used oil. The total generating capacity at this facility is 227 megawatts. Also located at this facility are miscellaneous unregulated/insignificant emissions units and/or activities. Title V Final Permit No. 0570038-001-AV currently authorizes operation of the existing steam boilers. Final Title V Permit was issued with an effective date of January 1, 1998 and expires on January 1, 2002. Completion of this project will result in the installation of thirty internal combustion engines with generators capable of providing a nominal 54.75 MW of electrical power.

REGULATORY CLASSIFICATION

Acid Rain: This facility is subject to the acid rain provisions of the Clean Air Act (Title IV).

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. However, the existing facility is classified as a PSD Major Source.

PERMIT SCHEDULE

- 01-23-01: Date of Receipt of Permit Application
- 02-07-01: Application deemed complete
- 03-xx-01: Intent issued
- 04-xx-01: Notice published in _____

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 1-23-01
- Department letter dated 1-30-01
- Company letters dated 2-06-01 and 2-15-01
- Technical Evaluation and Preliminary Determination dated 3-21-01

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 Air Management Division, Hillsborough County Environmental Protection Commission, 1900 Ninth Avenue, Tampa, Florida 33605. The phone number is 813/272-5960 and the fax number is 813/272-5157.

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 **December 1, 2001**. 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.]**

This permit addresses the following emissions units.

EU ID No.	EMISSIONS UNIT DESCRIPTION
001 – 006#	Six boilers that are fired using No. 6 fuel oil.
007 – 036*	30 Caterpillar XQ2000 Power Modules. Each Power Module consists of one Caterpillar 3516B 16-cylinder, 4-stroke cycle diesel internal combustion (IC) engine and one Caterpillar SR4B generator. The Caterpillar 3516B IC engine has a power rating of 2,593 brake horsepower (bhp) at 100 percent load. The Caterpillar SR4B generator has a power output rating of 1,825 kilowatts (kW) at 100 percent load. The IC engines will be fired exclusively with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil and will only operate at 100 percent load.

Existing Emission units

* New Emission units

The following Specific Conditions apply to the new emission units 007-036:

PERFORMANCE RESTRICTIONS

1. Internal Combustion Engines: The permittee is authorized to install, tune, operate and maintain thirty new internal combustion engines with electrical generator sets (Caterpillar XQ2000 Power modules). The thirty generators are designed to produce a maximum 54.75 MW 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 in any way (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. **[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. The permittee shall demonstrate compliance with the fuel 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.]**

5. Noise Nuisance: The permittee shall comply with the noise nuisance ordinances as outlined in Chapter 1-10 of the Rules of Environmental Protection Commission of Hillsborough County. **[Rule 1-10.01(B)(9) and Rule 1-10.03, EPCHC]**

EMISSIONS CONTROLS

6. 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, 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

7. Nitrogen Oxides (NO_X):

NO_X emissions from each internal combustion engine shall not exceed 53 lb/hr. Additionally, annual emissions of NO_X in tpy from these emission units shall be calculated by using the NO_x emission rate of 53 lb/hr multiplied by the total operating hours for the thirty engines divided by 2000. This NO_x emission in tpy when combined with the NO_x emissions for the existing emission units (EU001-EU006) in tpy shall not exceed 682 TPY, based upon a consecutive 12-month period. This facility-wide annual emissions cap shall become effective on the fifth day of the month following the start-up of the first internal combustion engine, and compliance shall begin based upon the first twelve months of operation thereafter. NO_x emissions from the existing emission units (EU001-EU006) shall not exceed 100 TPY. NO_x emissions from the existing emission units shall be determined using CEM's and converted to tpy.

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

8. 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 if 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.]**

EXCESS EMISSIONS

9. 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.]**

10. Excess Emissions Allowed: Providing the permittee adheres to best operational practices to minimize the amount and duration of excess emissions, the following conditions shall apply:

    (a) During startup and shutdown, visible emissions shall not exceed 27% opacity for up to 2 hours in any 24-hour period. **[Design; Rule 62-210.700(1), F.A.C.]**

OPERATIONAL LIMITATIONS

11. Fuel Oil Specification: Only No. 2 fuel oil can be fired in the internal combustion engines. 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 thirty internal combustion engines combined is 3,180,152 gallons per year, which is equivalent to 25,897 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 17 MMBtu per hour at 100% load. **[Design, Rule 62-210.200, F.A.C. (Definition - PTE)]**

14. Hours of Operation: The thirty internal combustion engines shall operate no more than 25,897 engine-hours during any consecutive 12-month period. The permittee shall install, calibrate, operate and maintain a monitoring system to measure the hours of operation on each internal combustion engine. **[Rule 62-210.200, F.A.C. (Definitions - PTE)]**

15. Operational Period: The thirty internal combustion engines shall cease operation in June 2003. **[Applicant Request]**

EMISSIONS PERFORMANCE TESTING

16. 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.]**

17. 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);

    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 in accordance with an alternate sampling procedure specified in Rule 62-297.620, F.A.C.

18. Fuel Oil Monitoring: The fuel 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 consumption for the emission units. **[Rules 62-297.440, F.A.C., and 62-210.200, F.A.C.]**

19. 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.]**

20. 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 one of the internal combustion engines. **[Rule 62-297.310(7)(a)1., F.A.C.]**

21. Annual Performance Tests: To demonstrate compliance with the emission standards specified in this permit, the permittee shall conduct annual performance tests for NO_X and visible emissions on the emission units that operated for more than 400 hours in the preceding 12-month period. Tests required on an annual basis shall be conducted at least once during each federal fiscal year (October 1st to September 30th). **[Rule 62-297.310(7)(a)4., F.A.C.]**

22. 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.]**

23. 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.]**

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

25. 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.]**

26. 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.]**

27. 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

28. 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.]**

29. 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 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.]**

30. 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 fired for 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.]**

31. 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.]**

The following Specific Conditions apply to the existing emission units 001-006:

1. The existing emission units shall comply with all the requirements of 0570038-001-AV with the exceptions listed below in conditions 2 through 4. **[Title V Permit Requirements]**
2. For each 12-month period that the thirty internal combustion engines (EU007-EU036) operate below 25,897 engine-hours, the existing emission units 001 through 006 may operate to reach the facility-wide NO_x cap of 682 tpy. NO_x emissions from the existing emission units (EU001-EU006) shall not exceed 100 tpy. The existing emission units shall use the CEM system to demonstrate compliance with the emission limits for NO_x. **[Rule 62-212.400, F.A.C. (PSD avoidance)]**
3. The existing emission units may not operate simultaneously with the internal combustion engines unless the facility must do so to avoid interrupting customers. In the event that the facility does operate the two sources together, upon request from the Department, shall provide the necessary documentation to show the necessity of operating the two sources simultaneously. **[Applicant Request]**
4. The existing emission units may operate with a NO_x emissions cap of 100 tpy after the internal combustion engines ceases operation in June 2003. **[Applicant Request]**

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.

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 ( ).

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.

HOOKERS POINT STATION
INTERNAL COMBUSTION ENGINES
AIR CONSTRUCTION PERMIT APPLICATION

RECEIVED
JAN 23 2001
BUREAU OF AIR REGULATION

Prepared for:

TAMPA ELECTRIC

Prepared by:

ECT
Environmental Consulting & Technology, Inc.
3701 Northwest 98th Street
Gainesville, Florida 32606

ECT No. 001099-0100

January 2001

1.0 INTRODUCTION

Tampa Electric Company (TEC) operates six No. 6 oil-fired steam boilers (Units Nos. 1 through 6) at the Hookers Point Station located at 1700 Hemlock Street, Tampa, Hillsborough County, Florida. Operation of the existing steam boilers is currently authorized by Title V Final Permit No. 0570038-001-AV. Final Permit No. 0570038-001-AV was issued with an effective date of January 1, 1998 and expires on January 1, 2002.

To meet anticipated summer power demands, TEC proposes to install 30 Caterpillar XQ2000 Power Modules at the Hookers Point Station. Each Power Module consists of one Caterpillar 3516B 16-cylinder, 4-stroke cycle diesel internal combustion (IC) engine and one Caterpillar SR4B generator. The Caterpillar 3516B IC engine has a power output rating of 2,593 brake horsepower (bhp) at 100 percent load. The Caterpillar SR4B generator has a power output rating of 1,825 kilowatts (kW) at 100 percent load. The Caterpillar 3516B IC engines will be fired exclusively with low-sulfur (maximum of 0.05 weight percent sulfur) diesel fuel oil and will only operate at 100 percent load.

The existing Hookers Point Station is located in an area designated attainment for all criteria pollutants and is classified as a *major* facility. A modification to a major facility that has potential net emissions equal to or exceeding the significant emission rates indicated in Section 62-212.400, Table 212.400-2, Florida Administrative Code (F.A.C.), is subject to Prevention of Significant Deterioration (PSD) New Source Review (NSR) permitting requirements. The 30 Caterpillar XQ2000 Power Modules will be operated in conjunction with existing Hookers Point Units 1 through 6 such that total Hookers Point Station emissions will remain below the PSD significant emission rate thresholds for major modifications. TEC proposes to implement a facility-wide nitrogen oxides (NO_x) emissions cap of 682.4 tons per year to ensure that the new IC engines do not constitute a major modification for PSD NSR applicability purposes. Therefore, the IC Engine Project qualifies as a *minor* modification to a major facility and is not subject to the PSD NSR requirements

of Section 62-212.400, F.A.C. Attachment E provides a detailed PSD netting analysis for the IC Engine Project.

The proposed Hookers Point Station IC Engine Project will result in airborne emissions. Therefore, a permit is required prior to the beginning of facility modification, per Rule 62-212.300(1)(a), F.A.C. This report, including the required permit application forms and supporting documentation included in the attachments, constitutes TEC's application to construct and operate the proposed IC engines in accordance with the Florida Department of Environmental Protection (FDEP) permitting rules contained in Chapter 62-212, F.A.C.

Attachment A contains a completed FDEP Application for Air Permit—Title V Source; DEP Form 62-210.900(1). IC engine vendor technical specifications and a typical fuel analysis are provided in Attachments B and C, respectively. Attachment D provides IC engine vendor emissions data and emission rate calculations. The PSD netting analysis and proposed Hookers Point Station facility-wide NO_x emissions cap are provided in Attachment E.

ATTACHMENT A

APPLICATION FOR AIR PERMIT—TITLE V SOURCE

Department of
Environmental Protection
Division of Air Resources Management

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: **Tampa Electric Company**	
2. Site Name: **Hookers Point Station**	
3. Facility Identification Number: **0570038**	[ ]Unknown
4. Facility Location: Street Address or Other Locator: **1700 Hemlock Street** City: **Tampa** County: **Hillsborough** Zip Code: **33605-6660**	
5. Relocatable Facility? [ ] Yes [✔] No	6. Existing Permitted Facility? [✔] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Shannon K. Todd** **Engineer – Air Programs, Environmental Planning**
2. Application Contact Mailing Address: Organization/Firm: **Tampa Electric Company** Street Address: **6499 U.S. Highway 41 North** City: **Apollo Beach** State: **FL** Zip Code: **3572-9200**
3. Application Contact Telephone Numbers: Telephone: **(813)641 – 5125** Fax: **(813) 641-5081**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	1-23-01
2. Permit Number:	0570038-002-AC
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial Title V air operation permit for an existing facility which is classified as a Title V source.

[ ] Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number:_____

[ ] Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number:_____

Operation permit number to be revised:_____

[✔] Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected: **0570038-001-AV**

[ ] Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised:_____

Reason for revision:_____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[✔] Air construction permit to construct or modify one or more emissions units.

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:
   Darryl Scott, General Manager

2. Application Contact Mailing Address:
   Organization/Firm: **Tampa Electric Company**
   Street Address: **1700 Hemlock Street**
   City: **Tampa** State: **FL** Zip Code: **33605-6660**

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
   Telephone: **(813) 228-1111, Ext. 23-300** Fax: **(813) 228-1991**

4. Owner/Authorized Representative or Responsible Official Statement:

   I, the undersigned, am the owner or authorized representative(check here [ ], if so) or the responsible official (check here [✔], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

   _____ 1/22/01

   Signature Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **Thomas W. Davis**
   Registration Number: **36777**

2. Professional Engineer Mailing Address:
   Organization/Firm: **Environmental Consulting & Technology, Inc.**
   Street Address: **3701 Northwest 98th Street**
   City: **Gainesville** State: **FL** Zip Code: **32606**

3. Professional Engineer Telephone Numbers:
   Telephone: **(352) 332-0444** Fax: **(352) 332-6722**

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [✔], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [✔], if so), I further certify that the engineering features of each such emissions unit described in this application have been ~~designed or~~ examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature (seal) Date: 1/17/01

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
008 – 037	IC Engine/Generator Set Nos. 1 - 30	N/A	N/A

Application Processing Fee

Check one: [ ] Attached - Amount: $_____ [✔] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Project consists of the addition of thirty (30) Caterpillar XQ2000 Power Modules. Each Power Module consists of one Caterpillar 3516B 16-cylinder, 4-stroke cycle diesel internal combustion (IC) engine and one Caterpillar SR4B generator. The Caterpillar 3516B IC engine has a power output rating of 2,593 brake horsepower (bhp) at 100% load. The Caterpillar SR4B generator has a power output rating of 1,825 kilowatts (kW) at 100% load.

The Caterpillar 3516B IC engines will be fired exclusively with low sulfur (maximum of 0.05 weight % sulfur) diesel fuel oil and will only operate at 100% load. The 30 Caterpillar XQ2000 Power Modules will be operated in conjunction with existing Hookers Point Units 1 through 6 such that total Hookers Point Station emissions will remain below the PSD significant emission rate thresholds for major modifications.

2. Projected or Actual Date of Commencement of Construction: **March 1, 2001**

3. Projected Date of Completion of Construction: **May 1, 2001**

Application Comment

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: **17** East (km): **358.0** North (km): **3,091.0**			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): Longitude (DD/MM/SS):			
3. Governmental Facility Code: **0**	4. Facility Status Code: A	5. Facility Major Group SIC Code: **49**	6. Facility SIC(s): **4911**
7. Facility Comment (limit to 500 characters):			

Facility Contact

1. Name and Title of Facility Contact: **Darryl Scott, General Manager**
2. Application Contact Mailing Address: Organization/Firm: **Tampa Electric Company** Street Address: **1700 Hemlock Street** City: **Tampa** State: **FL** Zip Code: **33605-6660**
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: **(813) 228-1111, Ext. 23-300** Fax: **(813) 228-1991**

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source? [ ] Unknown
2. [✔] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?
4. [✔] Major Source of Hazardous Air Pollutants (HAPs)?
5. [ ] Synthetic Minor Source of HAPs?
6. [ ] One or More Emissions Units Subject to NSPS?
7. [ ] One or More Emission Units Subject to NESHAP?
8. [ ] Title V Source by EPA Designation?
9. Facility Regulatory Classifications Comment (limit to 200 characters):

List of Applicable Regulations

See Title V permit application	

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
NOX	**A**	**N/A**	**682.4**	**ESCPSD**	
VOC	**A**	**N/A**	**N/A**	**N/A**	
CO	**A**	**N/A**	**N/A**	**N/A**	
PM	**A**	**N/A**	**N/A**	**N/A**	
PM10	**A**	**N/A**	**N/A**	**N/A**	
SO2	**A**	**N/A**	**N/A**	**N/A**	
H106 (HCl)	**A**	**N/A**	**N/A**	**N/A**	
H107 (HF)	**A**	**N/A**	**N/A**	**N/A**	
HAPS	**A**	**N/A**	**N/A**	**N/A**	

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [ ] Attached, Document ID: [ ] Not Applicable [✔] Waiver Requested
2. Facility Plot Plan: [ ] Attached, Document ID: [ ] Not Applicable [✔] Waiver Requested
3. Process Flow Diagram(s): [ ] Attached, Document ID: [ ] Not Applicable [✔] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID: [ ] Not Applicable [✔] Waiver Requested
5. Fugitive Emissions Identification: [ ] Attached, Document ID:_____ [ ] Not Applicable [✔] Waiver Requested
6. Supplemental Information for Construction Permit Application: [✔] Attached, Document ID: [ ] Not Applicable **See Attachments A through E.**
7. Supplemental Requirements Comment: **Items 1 through 5 previously submitted – see Hookers Point Station Title V permit application.**

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
   [ ] Attached, Document ID:_____ [ ] Not Applicable

9. List of Equipment/Activities Regulated under Title VI:
   [ ] Attached, Document ID:_____
   [ ] Equipment/Activities On site but Not Required to be Individually Listed
   [ ] Not Applicable

10. Alternative Methods of Operation:
    [ ] Attached, Document ID:_____ [ ] Not Applicable

11. Alternative Modes of Operation (Emissions Trading):
    [✔] Attached, Document ID:_____ [ ] Not Applicable
    See Attachment E.

12. Identification of Additional Applicable Requirements:
    [ ] Attached, Document ID:_____ [ ] Not Applicable

13. Risk Management Plan Verification:
    [ ] Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID:_____) or previously submitted to DEP (Date and DEP Office:_____)
    [ ] Plan to be submitted to CEPPO (Date required:_____)
    [ ] Not Applicable

14. Compliance Report and Plan:
    [ ] Attached, Document ID:_____ [ ] Not Applicable

15. Compliance Certification (Hard-copy Required):
    [ ] Attached, Document ID:_____ [ ] Not Applicable

Items 8. through 10. and 12. through 15. above previously submitted – see Hookers Point Title V permit application.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[✔] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[✔] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Caterpillar XQ2000 Power Module comprised of one Caterpillar 3516B 16-cylinder, 4-stroke cycle diesel internal combustion (IC) engine and one Caterpillar SR4B generator. The Caterpillar 3516B IC engine has a power output rating of 2,593 brake horsepower (bhp) at 100% load. The Caterpillar SR4B generator has a power output rating of 1,825 kilowatts (kW) at 100% load. The IC engine will be fired exclusively with low sulfur diesel fuel oil.

4. Emissions Unit Identification Number:
ID: **IC Engine/Generator No. 1**
[✔] No ID
[ ] ID Unknown

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
C		**49**	

9. Emissions Unit Comment: (Limit to 500 Characters)

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

   None

2. Control Device or Method Code(s): **N/A**

Emissions Unit Details

1. Package Unit:
   Manufacturer: **Caterpillar** Model Number: **XQ2000**
2. Generator Nameplate Rating: **1.825** MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**16.8** mmBtu/hr			
2. Maximum Incineration Rate:	lb/hr			tons/day
3. Maximum Process or Throughput Rate:				
4. Maximum Production Rate:				
5. Requested Maximum Operating Schedule:				
	24	hours/day	**7**	days/week
	52	weeks/year	**8,760**	hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

The 30 Caterpillar XQ2000 Power Modules will be operated in conjunction with existing Hookers Point Units 1 through 6 such that total Hookers Point Station emissions will remain below the PSD significant emission rate thresholds for major modifications. See Attachment E. for details.

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

N/A	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **ENG 1**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **N/A**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **V**	6. Stack Height: **13.5** feet	7. Exit Diameter: **0.67** feet
8. Exit Temperature: **808** °F	9. Actual Volumetric Flow Rate: **14,255** acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters):		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
IC engine fired with diesel fuel oil.		
3. Source Classification Code (SCC): **20100102**	3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate: **0.1228**	5. Maximum Annual Rate: **1,075.73**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **0.05**	8. Maximum % Ash: **0.01**	9. Million Btu per SCC Unit: **137**
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment ____ of ____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
3. Maximum Hourly Rate:	4. Maximum Annual Rate:	6. Estimated Annual Activity
6. Maximum % Sulfur:	7. Maximum % Ash:	8. Million Btu per SCC Unit:
9. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 – NOX			**EL**

Pollutant Detail Information Page 1 of 1

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **NOX**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **52.7** lb/hour **230.8** tons/year	4. Synthetically Limited? [✔]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **9.22 g/hp-hr** Reference: **Caterpillar data**	7. Emissions Method Code: **5**
8. Calculation of Emissions (limit to 600 characters): **See Attachment D.**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): **The 30 Caterpillar XQ2000 Power Modules will be operated in conjunction with existing Hookers Point Units 1 through 6 such that total Hookers Point Station emissions will remain below the PSD significant emission rate thresholds for major modifications. See Attachment E. for details.**	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **ESCPSD**	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **52.7 lb/hr**	4. Equivalent Allowable Emissions: **52.7** lb/hour **230.8** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Reference Method 7E**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **The 30 Caterpillar XQ2000 Power Modules will be operated in conjunction with existing Hookers Point Units 1 through 6 such that total Hookers Point Station emissions will remain below the PSD significant emission rate thresholds for major modifications. See Attachment E. for details.**	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: [✔] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20** % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
5. Method of Compliance: **EPA Reference Method 9**	
6. Visible Emissions Comment (limit to 200 characters): **Rule 62-296.320(4)(b), F.A.C.**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

2. Visible Emissions Subtype:	2. Basis for Allowable Opacity: [✔] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: % Exceptional Conditions: **100** % Maximum Period of Excess Opacity Allowed: **60** min/hour	
7. Method of Compliance: **EPA Reference Method 9**	
8. Visible Emissions Comment (limit to 200 characters): **Excess emissions resulting from startup, shutdown, or malfunction not-to-exceed 2 hours in any 24 hour period unless authorized by FDEP for a longer duration. Rule 62-210.700(1), F.A.C.**	

1. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor ____ of ____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
6. Continuous Monitor Comment (limit to 200 characters):	

Continuous Monitoring System: Continuous Monitor ____ of ____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram
   [ ] Attached, Document ID:_____ [✔] Not Applicable [ ] Waiver Requested

2. Fuel Analysis or Specification
   [✔] Attached, Document ID:_____ [ ] Not Applicable [✔] Waiver Requested
   Attachment B

3. Detailed Description of Control Equipment
   [ ] Attached, Document ID: _____ [✔] Not Applicable [ ] Waiver Requested

4. Description of Stack Sampling Facilities **To be provided**
   [ ] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested

5. Compliance Test Report
   [ ] Attached, Document ID:_____
   [ ] Previously submitted, Date:_____
   [✔] Not Applicable

6. Procedures for Startup and Shutdown
   [ ] Attached, Document ID:_____ [✔] Not Applicable [ ] Waiver Requested

7. Operation and Maintenance Plan
   [ ] Attached, Document ID:_____ [✔] Not Applicable [ ] Waiver Requested

8. Supplemental Information for Construction Permit Application
   [✔] Attached, Document ID:_____ [ ] Not Applicable
   Attachments A – E.

9. Other Information Required by Rule or Statute
   [ ] Attached, Document ID:_____ [✔] Not Applicable

10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [ ] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[✔] Attached, Document ID:_____ [ ] Not Applicable
Attachment E

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[ ] Not Applicable

Items 11 and 13 – 15 previously submitted, see Hookers Point Station Title V permit application.

NOTE:

EMISSION UNITS 008 THROUGH 037 ARE IDENTICAL UNITS.

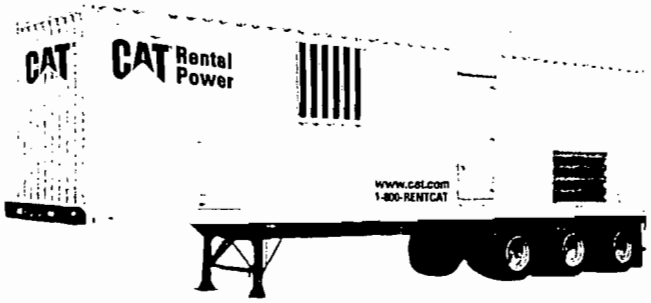
SECTION III. EMISSIONS UNIT INFORMATION PROVIDED FOR EU 008 (IC ENGINE/GENERATOR NO. 1) IS ALSO APPLICABLE TO EU 009 (IC ENGINE/GENERATOR NO. 2) THROUGH EU 037 (IC ENGINE/GENERATOR NO. 30).

EMISSIONS UNIT INFORMATION SECTIONS 2 THROUGH 7 ARE IDENTICAL TO SECTION 1, WITH THE EXCEPTION OF IDENTIFICATION NUMBERS.

ATTACHMENT B

CATERPILLAR XQ2000 POWER MODULE TECHNICAL SPECIFICATIONS

ECT
Environmental Consulting & Technology, Inc.



XQ2000 SOUND ATTENUATED POWER MODULE

60 Hz

FEATURES

EMISSIONS

EPA and CARB Emissions Certified for non-road mobile applications.

CAT® DIESEL GENERATOR SETS

Factory designed, certified prototype tested with torsional analysis. Production tested and delivered to you in a package that is ready to be connected to your fuel and power lines. Electric Power Design Pro computer sizing available. Supported 100% by your Caterpillar dealer with warranty on parts and labor. Extended warranty available in some areas. The generator set was designed and manufactured in an ISO 9001 compliant facility. Generator set and components meet or exceed the following specifications: AS1359, AS2789, ABGSM TM3, BS4999, DIN6271, DIN6280, EGSA101P, JEM1359, IEC 34/1, ISO3046/1, ISO8528, NEMA MG1-22.

CATERPILLAR® SR4B GENERATOR

Single bearing, wye connected, static regulated, brushless permanent magnet excited generator designed to match the performance and output characteristics of the Caterpillar diesel engine that drives it.

RELIABLE, FUEL EFFICIENT DIESEL

The compact, four-stroke-cycle diesel engine combines durability with minimum weight while providing dependability and economy. The fuel system operates on a variety of fuels.

CATERPILLAR® COOLING SYSTEM

Sized compatible to rating with energy efficient fan and core.

CATERPILLAR® SWITCHGEAR

Single unit or optional paralleling components. Circuit breakers, bus bars, and connection panel ready to connect.

EXCLUSIVE CATERPILLAR® VOLTAGE REGULATOR

Three-phase sensing and adjustable Volts-per-Hertz regulation give precise control, excellent block loading, and constant voltage in the normal operating range.

SOUND ATTENUATED ISO CONTAINER

For ease of transportation and protection. Meets 70 dBA at 50 ft or below per SAE J1074 measurement procedure.

FACTORY INSTALLED STANDARD & OPTIONAL EQUIPMENT

System	Standard	Optional
Engine	Air cleaner, with service indicator Batteries Filters; fuel, LH with service indicators; lubricating oil Insulated muffler Jacket water heater Pump, fuel priming — LH Radiator Service meter Standard eight-gauge instrument panel Sump pump Governor Electronic ADEM II	
Generator	SR4B brushless, 480 volt, PM excited three-phase with digital voltage regulator, space heater	
Containerized Module	Air intake louvers Bus bar access door Fuel tank — 4730 L (1250 Gal) UL listed Fuel/water separator 110 VAC/24 VDC lighting Sound attenuated (75 dBA @ 50 ft) ISO hi cube container Lockable doors Stainless steel hardware and hinges Vertical radiator and exhaust discharge plenum	
Cooling	Standard cooling provides 110° ambient at prime rating	
Switchgear	Floorstanding switchgear with EMCP II components Automatic start/stop with cooldown timer Battery charger, heavy duty 20A Protection: 32, 59 Circuit breaker, electrically operated Connection terminals, 3-phase and neutral Automatic paralleling Auxiliary power connections for jacket water heater, battery charger, space heaters	Meters: power factor, KW, PF, W/WHM, synchroscope, KVAR Protection: 27, 40, 810, 81U CIM, CCM, remote annunciation Plug and peak shave utility conversion panel

SPECIFICATIONS

CAT SR4B GENERATOR

Type ..... Static regulated brushless PM excited
Construction ..... Single bearing, close coupled
Three-phase ..... Wye connected — 6 lead
Insulation ..... Class H — 2 extra dips and bakes on random wound units
Enclosure ..... Drip proof
Alignment ..... Pilot shaft
Overspeed capability 130%
Voltage regulator ..... 3-phase sensing with Volts-per-Hertz
Voltage regulation ..... Less than ± 0.5%
Voltage gain ..... Adjustable to compensate for engine speed droop and line loss
Wave form ..... Less than 5% deviation
TIF ..... Less than 50
THD ..... Less than 3%

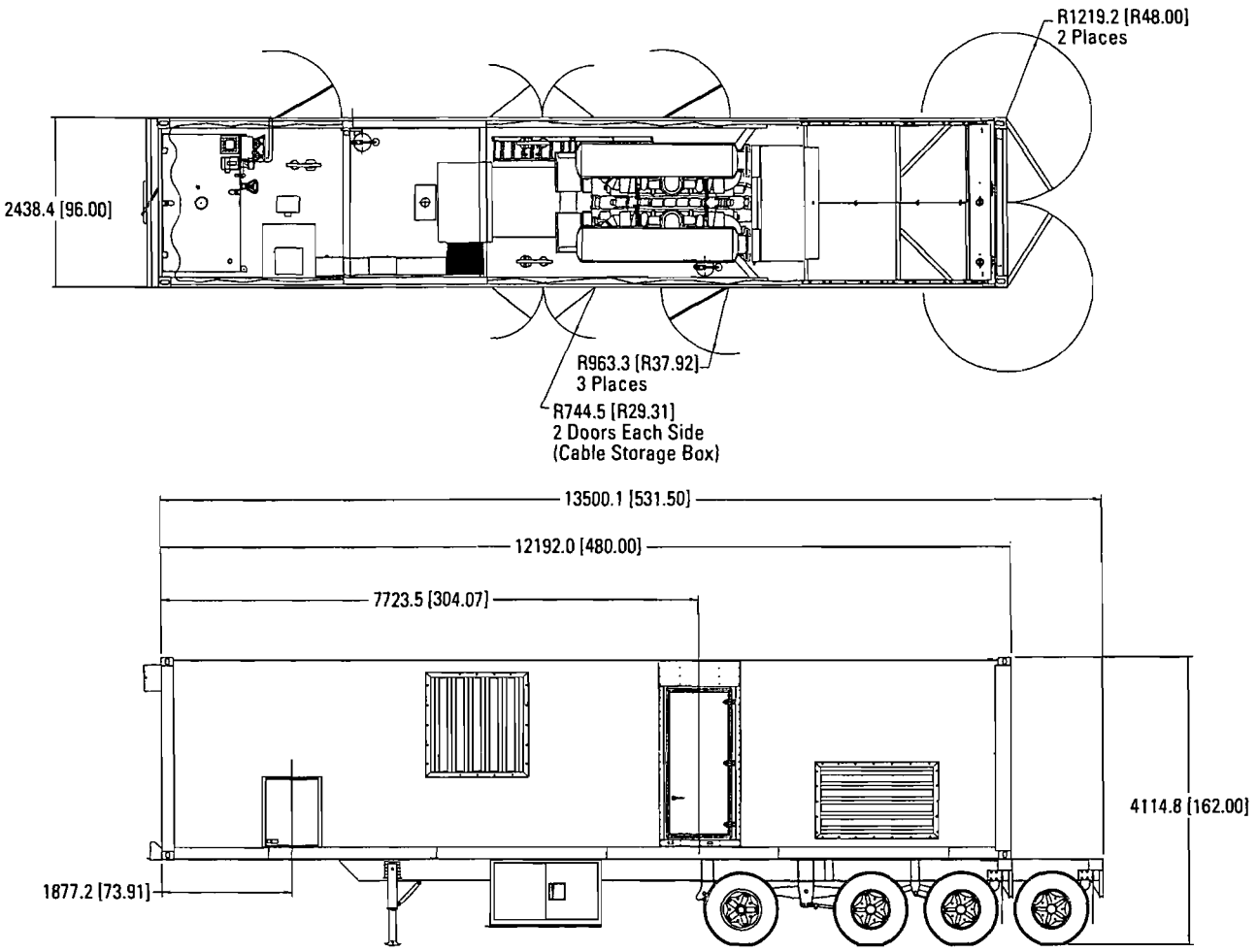
CAT® 3516B ENGINE

V-16, 4-stroke-cycle diesel
Bore — mm (in) 170 (6.7)
Stroke — mm (in) 190 (7.5)
Displacement — L (cu in) 69.0 (4210)
Aspiration ..... Turbocharged-Aftercooled

TECHNICAL DATA

		Standby	Prime
Power Rating			
60 Hz	ekW	2000	1825
Engine and Container Information			
Engine Model		3516B	
Container size	m (ft)	12 (40)	
Container dimensions		see below	
Fuel Capacity Hours of Operation at 60% Load Factor			
4732 L (1250 Gal) Standard 12 m (40 ft)	hours	8	9
Approximate Weight (Dry) — Container with Generator Set and Switchgear			
Including Container	kg (lb)	32 660 (72,000)	
With Undercarriage	kg (lb)	40 370 (89,000)	

Container Dimensions



The power module must have support under the center when set on the ground.

Dimensions		
Length	13500.1 mm	531.50 in
Width	2438.4 mm	96.00 in
Height	4114.8 mm	162.00 in

STANDARD CONTROLS

12 m (40 ft) CONTAINERS 480V/60 Hz

Floorstanding switchgear includes the following functions and features:

ELECTRONIC MODULAR CONTROL PANEL (EMCP II) COMPONENTS

GENERATOR SET CONTROL (GSC)

Monitoring

Sequentially rotating, backlit LCD display of engine hours, engine rpm, DC battery voltage, oil pressure, and water temperature. Includes pushbutton to hold display on any single parameter.

Protection

Shutdowns:

Overspeed, overcrank, high water temperature, low oil pressure, and emergency stop. With LED indicator for each condition.

Alarms:

Low coolant level

AC Metering

Three-phase volts (L-L), amperes and frequency with phase select pushbutton, on backlit LCD. Metering accuracy is 0.5%.

Control

Automatic starting with field adjustable cycle crank, failure to start (overcrank), and cooldown timer.

Programming and Diagnostics

Includes field programmable set-points for engine control and monitoring variables and self diagnosis of EMCP II system component and wiring failures.

ALARM MODULE

Flashing LED warnings for: low coolant temperature, high coolant temperature (pre-alarm), low oil pressure (pre-alarm), engine control switch not in automatic, and low DC voltage. Includes alarm horn and acknowledge pushbutton.

ENGINE CONTROL SWITCH

Snap action rotary switch, four-position — off/reset, automatic, manual, stop/cooldown. Off/reset for engine shutdown and resetting faults, automatic for remote starting by customer contact closure, manual for local starting and manual paralleling, stop/cooldown for manual operation cooldown.

ALARM ACKNOWLEDGE/LAMP TEST SWITCH

Three-position, spring return to center switch for alarm acknowledge and lamp test of all discrete indicating lamps. Lamp test shall also sound the alarm horn.

ANNUNCIATION CIRCUITS

Upon receipt of an alarm or shutdown condition, the horn shall sound and an LED shall flash. Upon acknowledgement from alarm acknowledge/lamp test switch, the horn shall be silenced and the lamp steadied. LED shall be extinguished when ECS is placed in the off/reset position if the alarm condition has been corrected. Circuits are recurring such that the LED shall flash and the horn sound, should another fault occur even prior to correction of the initial fault.

EMERGENCY STOP PUSHBUTTON

Mushroom head, twist to reset, causes engine shutdown and tripping of the generator circuit breaker. Prevents engine starting when depressed.

MANUAL PARALLELING

Controls consisting of reverse power relay, synchronizing lights, and switch. Reverse power condition causes tripping of the generator circuit breaker, immediate engine shutdown, flashing of indicating lamp, and sounding of alarm horn.

CIRCUIT BREAKER

Fixed mounted, three-pole, manually operated, molded case circuit breaker with solid state trip unit for overload (time overcurrent) and fault (instantaneous) protection. Includes DC shunt trip coil activated on any generator set monitored fault. Circuit breaker is sized for full load capacity of the generator set at 0.8 power factor.

LOAD SHARE GOVERNOR

Electronic load sharing governor with speed adjust potentiometer, idle/rated switch, and isochronous/droop switch.

VOLTAGE REGULATOR

Standard Caterpillar generator-mounted digital voltage regulator with voltage adjust rheostat mounted in the floorstanding switchgear.

STANDARD CONTROLS (Continued)

CURRENT TRANSFORMERS (3)

Five-ampere secondary with shorting terminal strips

POTENTIAL TRANSFORMERS (3)

120 VAC secondary with primary and secondary fuse protection, two connected to the generator side of the circuit breaker, one connected to the load side of the circuit breaker.

BUS BARS

Three-phase plus fully rated neutral bus bars with NEMA standard hole pattern for connection of customer load cables and generator cables. Bus bars are sized for full load capacity of the generator set at 0.8 power factor. Also includes ground bus, connected to the generator frame ground and container frame with holes for connection of field ground cable. Bus bars are accessible from outside of the power module via hinged, lockable cable access door.

ACCESSORY POWER

3500 Power Modules

Three 230 VAC (50 Hz units) or 120 VAC (60 Hz units) shore power connections for jacket water heaters, generator space heater, and battery charger.

BATTERY CHARGER

24 VDC/20A battery charger with float/equalize modes and charging ammeter.

ATTACHMENT C

FUEL ANALYSIS

EXHIBIT A

Low Sulfur No. 2 Oil

Parameters	Specification Minimum	Specification Maximum	ASTM Test Method
Heat Content, Btu/Gal	137,000		D-240
Sulfur, % Weight	–	0.05	D-1552
Viscosity, SUS @ 100°F	32.6	40.5	D-445/2161
Ash, % Weight	–	0.01	D-482
Water & Sediment, % Wt.	–	0.05	D-2709
Flash Point, °F	100	–	D-93
API Gravity @ 60°F	20	–	D-97
Specific Gravity @ 60°F	–	0.876	D-287
Vanadium, PPM	–	0.5	D-3605-91
Sodium, PPM	–	1.0	D-3605-91
Lead, PPM	–	1.0	D-3605-91

Latest ASTM or equivalent revisions shall apply in reference to the above ASTM or equivalent Test Method.

ATTACHMENT D

VENDOR EMISSIONS DATA AND EMISSION RATE CALCULATIONS

CATERPILLAR DIESEL GENERATOR SET PERFORMANCE DATA

MODEL: 3516B RATED: 1825 KW PRIME 1800 RPM
A/C TEMPERATURE 140 F
YEAR 2000 EPA CERTIFIED

-GENGPE1- TMI - ENGINE AND COMP PERF DATE: 12/07/00
09 - PACKAGE SET PERFORMANCE TIME: 08:38:15
3516B DI TA SC DRY MANF TURBO QTY 4 PARALLEL ADEM GOV
DM4501-02 PGS PRIME 60 HERTZ EXH STK DIA 8.0 IN
3[illegible] 1825.0 W/F EKW 1880.0 W/O F EKW W/F BHP 2628 W/O F BHP @ 1800 RPM
A/C TEMP: DEG F 140
INTO CODE 05 - EMISSIONS DATA * * * * * RATED SPEED * * * * STANDARD TIMING
"[illegible]OT TO EXCEED DATA"

GEN PWR EKW	% LOAD	ENG PWR BHP	NOX (AS NO2) * * * * * * * * *	CO	TOTAL HC LB/HR * * * * * * * * *	PART MATTER	O2 (DRY) IN EXH (VOL) %	SMOKE OPAC %	BOSCH SMOKE NO.
1825.0	100	2593.0	52.69	.97	.97	.480	11.00	1.4	1.28
[illegible]868.8	75	1957.7	29.36	1.09	.96	.490	12.00	1.7	1.28
[illegible]912.5	50	1327.6	17.66	1.37	.76	.430	12.70	2.5	1.28
456.3	25	703.6	9.48	1.44	.53	.300	14.00	2.1	1.28

EMISSIONS DATA MEASUREMENT IS CONSISTENT WITH THOSE DESCRIBED IN EPA CFR 40 PART 86 SUBPART D AND ISO 8178-1 FOR MEASURING HC, CO, PM AND NOX.

THIS ENGINE'S EXHAUST EMISSIONS ARE IN COMPLIANCE WITH THE FOLLOWING US EPA AND CALIFORNIA NONROAD REGULATIONS

EXHAUST EMISSIONS LIMITS
G/HP-HR

HC	CO	NOX	PM
1.0	8.5	6.9	.40

WET EXHAUST MASS	26433 LB/HR
WET EXHAUST FLOW (808 DEG F STACK TEMP)	14267 CFM
WET EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)...	5534 STD CFM
DRY EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)...	5092 STD CFM
FUEL FLOW RATE	122.8 GAL/HR

POTENTIAL EMISSION INVENTORY WORKSHEET

Tampa Electric Company, Hookers Point IC Engine Project

ENG 1-30

EMISSION SOURCE TYPE

HEAVY DUTY OIL-FIRED ENGINES - CRITERIA POLLUTANTS

FACILITY AND SOURCE DESCRIPTION

Emission Source Description:	4-Cycle Rich Burn Engine
Emission Control Method(s)/ID No.(s):	None
Emission Point Description:	1.825 MW Engine/Generator, Caterpillar Model 3516B Power Module

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Engine Power Output (hp) x Pollutant Emission Factor (lb/hp-hr)

Emission (ton/yr) = Engine Power Output (hp) x Pollutant Emission Factor (lb/hp-hr) x Operating Period (hrs/yr) x (1 ton/ 2,000 lb)

Source: ECT, 2000.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours:	24	Hrs/Day	7	Days/Wk	
Operating Hours:	8,760	Hrs/Yr			
Fuel Usage:	122.8	gal/hr	1,075,728	gal/yr	
Engine Heat Input:	16.8	10^6 Btu/hr (LHV)	Power Output:	1,825	kW
Engine Power Output:	2,593	HP	Fuel Oil Sulfur Content:	0.05	weight %
Oil Heat Content:	137,000	Btu/gal (LHV)	Heat Rate:	9,218	Btu/kW-hr
Number of Engines:	30	Oil Consumed:	0.1228	10^3 gal/hr	1,075.73 10^3 gal/yr

Criteria Pollutant	Pollutant Emission Factors		Potential Emission Rates (Per Engine)		Potential Emission Rates (All Engines)	
	(g/hp-hr)	(lb/hp-hr)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
NO_x	9.22	0.02032	52.7	230.78	1,580.7	6,923.5
CO	0.17	0.00037	1.0	4.25	29.1	127.5
THC	0.17	0.00037	1.0	4.25	29.1	127.5
SO_2	0.18	0.00040	1.0	4.59	31.5	137.8
PM/PM_{10}	0.08	0.00019	0.5	2.10	14.4	63.1

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	Actual hours will be limited to avoid PSD review.
Fuel Usage Data	Caterpillar, 2000.
Engine Power Output	Caterpillar, 2000.
Fuel Oil Sulfur Content	TEC, 2000.
Emission Factors (except SO_2)	Caterpilar (100% load), 2000.
Emission Factor, SO_2	Table 3.4-1, AP-42, EPA, October 1996.

NOTES AND OBSERVATIONS

DATA CONTROL

Data Collected by:	T.Davis	Date:	Jan-01
Data Entered by:	T.Davis	Date:	Jan-01
Reviewed by:	S. Todd	Date:	Jan-01

ATTACHMENT E

PSD NETTING ANALYSIS AND HOOKERS POINT EMISSIONS CAP

ECT
Environmental Consulting & Technology, Inc.

ATTACHMENT E

PSD NETTING ANALYSIS AND HOOKERS POINT STATION EMISSIONS CAP

The procedures for determining applicability of the Prevention of Significant Deterioration (PSD) new source review (NSR) permitting program to modifications planned at existing major Florida facilities are specified in Rule 62-212.400(2)(d)4., Florida Administrative Code (F.A.C.). Because the existing Hookers Point Station is a major facility (i.e., has potential emissions of 250 tons per year [tpy] or more of an air pollutant subject to regulation under Chapter 403, Florida Statutes) that would be subject to PSD preconstruction review if it were itself a proposed new facility (i.e., has potential emissions of 250 tpy or more of a pollutant regulated under the Clean Air Act and is located in an attainment area), modifications to the Hookers Point Station that result in a *significant net emissions increase* of any pollutant regulated under the Clean Air Act are subject to PSD NSR.

The term *significant net emission increase* is defined by Rule 62-212.400(2)(e), F.A.C. For each regulated pollutant, the net emission increase for a modification project is equal to the sum of the increases in emissions associated with the proposed project plus all facility-wide creditable, contemporaneous emission increases minus all facility-wide creditable, contemporaneous emission decreases. If this net emissions increase is equal to or greater than the applicable Table 212.400-2, F.A.C. Regulated Pollutants—Significant Emission Rates, then the net emission increase is considered to be *significant* and the modification will be subject to PSD NSR for that particular regulated pollutant.

In accordance with Rule 62-212.400(2)(e)3., F.A.C., the *contemporaneous* period for a modification project begins five years prior to the date of submittal of a complete permit application and ends when the new or modified emission units are estimated to begin operation.

In accordance with Rule 62-212.400(2)(e)4., F.A.C., contemporaneous emission increases and decreases are *creditable* if the following prove to be true:

- The emission increase or decrease will affect PSD increment consumption (i.e., will consume or expand the available increment).
- The emission increase or decrease was not previously considered in the issuance of a PSD NSR permit (to avoid *double counting*).
- The Florida Department of Environmental Protection (FDEP) has not relied on the emission increase or decrease in attainment or reasonable further progress demonstrations.

Contemporaneous emission increases and decreases are based on *actual* emission rates. The term *actual emissions* is defined by Rule 62-210.200(12), F.A.C. For new emission units, actual emissions are equal to potential emissions. For changes to existing emission units, actual emissions are generally the actual average emission rates, in tpy, for the two-year period preceding the change and which are representative of normal operations. The Department may allow the use of a different time period if it is determined that the other time period is more representative of the normal operation of an emissions unit.

For emission decreases, the old level of actual or allowable emissions (whichever is lower) must be greater than the new level of actual emissions. The actual emission decrease must also take place on or before the date that emissions from the modification project first occur and must be federally enforceable on and after the date the Department issues a construction permit for the modification project.

For the proposed internal combustion (IC) engine project, the contemporaneous period is projected to begin in January 1996 and end in May 2001. Creditable emission decreases that will occur within this contemporaneous period consist of the actual emissions associated with the reduced operations of existing Units 1 through 6. Creditable emission increases consist of those associated with the 30 new IC engines. TEC proposes to establish a facility-wide emissions cap for the Hookers

Point Station such that total station emissions (i.e., existing Units 1 through 6 and the 30 new IC engines) will remain below the PSD significant emission rate thresholds for major modifications.

Summaries of historical actual emission rates for existing Units 1 through 6 are provided in Tables 1 through 6. Total facility-wide emissions for the Hookers Point Station required to avoid PSD review are summarized in Table 7. Potential emission rates for the 30 new IC engines were previously provided in Attachment D. Contemporaneous creditable emission decreases were determined based on the actual emissions data (i.e., Annual Operating Reports [AORs]) previously submitted to FDEP for the Hookers Point Station.

The emissions data provided in Attachment D and Table 7 demonstrate that nitrogen oxide (NO_x) is the constraining pollutant with respect to PSD applicability (i.e., the IC engine emission factor for NO_x in units of grams per horsepower-hour is approximately 50 times higher than the remaining PSD pollutants). TEC proposes to limit total Hookers Point Station annual NO_x emissions to 682.4 tpy to ensure that operation of the 30 new IC engines, together with existing Units 1 through 6, does not result in a significant emission rate increase. The proposed Hookers Point Station NO_x cap of 682.4 tpy is based on the 1998/1999 historical average of 642.5 tpy for Units 1 through 6 plus 39.9 tpy. The new IC engines will only operate at 100 percent load when in use. Initial compliance testing will confirm the IC engine NO_x emission rate in units of pounds per hour (lb/hr) at 100 percent load. TEC proposes to implement the Hookers Point Station NO_x cap on a rolling 12-month annual average using the Part 75 continuous emission monitoring systems (CEMS) for Units 1 through 6 and run time meters for the 30 new IC engines.

Table 1. Hookers Point Station
IC Engine Netting Analysis - Unit 1 Historical Emissions

	Unit 1 (tpy)						
	1995	1996	1997	1998	1999	95-99, 5 Yr Avg	98,99 Avg
No. 1,2 Oil (10^3 gal)		9.0	6.0	8.0	9.0	8.0	8.5
Wt % S		0.25	0.16	0.40	0.40	0.30	0.40
No. 6 Oil (10^3 gal)		2,555.0	1,291.0	1,893.0	1,520.0	1,814.8	1,706.5
Wt % S		0.90	1.01	0.91	0.94	0.94	0.93
Waste Oil (10^3 gal)		0.0	0.0	5.3	19.0	6.1	12.2
Wt % S		0.00	0.00	1.72	1.50	0.81	1.61
NO_x AOR	98.0	86.2	65.0	59.0	39.0	69.4	49.0
CO AOR	7.0	6.0	3.0	5.0	3.8	5.0	4.4
SO_2 (AP-42)		180.7	102.4	136.2	114.7	133.5	125.4
SO_2 (AOR)	212.0	189.2	140.0	198.0	95.0	166.8	146.5
H_2SO_4 AP-42	9.4	8.0	4.6	6.1	5.1	6.6	5.6
PM_{10} AOR	22.0	19.0	8.0	26.0	12.0	17.4	19.0
PM AOR	22.0	19.0	8.0	26.0	12.0	17.4	19.0
Pb AOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOC AOR	1.0	1.0	0.5	1.0	0.6	0.8	0.8

Sources: ECT, 2000.
TEC, 2000.

Table 2. Hookers Point Station
IC Engine Netting Analysis - Unit 2 Historical Emissions

	Unit 2 (tpy)						
	1995	1996	1997	1998	1999	95-99, 5 Yr Avg	98,99 Avg
No. 1,2 Oil (10^3 gal)		0.0	0.0	0.0	0.0	0.0	0.0
Wt % S		0.00	0.00	0.00	0.00	0.00	0.00
No. 6 Oil (10^3 gal)		2,207.0	1,250.0	1,488.0	1,450.0	1,598.8	1,469.0
Wt % S		0.90	1.01	0.91	0.94	0.94	0.93
Waste Oil (10^3 gal)		0.0	0.0	5.3	19.0	6.1	12.2
Wt % S		0.00	0.00	1.72	1.50	0.81	1.61
NO_x AOR	67.0	74.0	67.0	43.0	32.0	56.6	37.5
CO AOR	5.0	5.0	3.0	4.0	3.6	4.1	3.8
SO_2 (AP-42)		155.9	99.1	107.0	109.2	117.8	108.1
SO_2 (AOR)	146.0	163.0	144.0	178.0	76.0	141.4	127.0
H_2SO_4 AP-42	6.5	6.9	4.4	4.8	4.9	5.5	4.8
PM_{10} AOR	17.0	18.0	9.0	15.0	9.0	13.6	12.0
PM AOR	17.0	18.0	9.0	15.0	9.0	13.6	12.0
Pb AOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOC AOR	1.0	1.0	0.5	1.0	0.6	0.8	0.8

Sources: ECT, 2000.
TEC, 2000.

Table 3. Hookers Point Station
IC Engine Netting Analysis - Unit 3 Historical Emissions

	Unit 3 (tpy)						
	1995	1996	1997	1998	1999	95-99, 5 Yr Avg	98,99 Avg
No. 1,2 Oil (10^3 gal)		0.0	0.0	0.0	0.0	0.0	0.0
Wt % S		0.00	0.00	0.00	0.00	0.00	0.00
No. 6 Oil (10^3 gal)		2,703.0	1,958.0	2,377.0	2,720.0	2,439.5	2,548.5
Wt % S		0.90	1.01	0.91	0.94	0.94	0.93
Waste Oil (10^3 gal)		0.0	0.0	5.3	19.0	6.1	12.2
Wt % S		0.00	0.00	1.72	1.50	0.81	1.61
NO_x AOR	61.0	91.0	82.0	80.0	163.0	95.4	121.5
CO AOR	5.0	7.0	5.0	6.0	6.8	6.0	6.4
SO_2 (AP-42)		191.0	155.2	170.5	202.9	179.9	186.7
SO_2 (AOR)	132.0	200.0	168.0	190.0	330.0	204.0	260.0
H_2SO_4 AP-42	5.9	8.5	6.9	7.6	9.0	7.6	8.3
PM_{10} AOR	18.0	26.0	99.0	38.0	44.0	45.0	41.0
PM AOR	18.0	26.0	99.0	38.0	44.0	45.0	41.0
Pb AOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOC AOR	1.0	1.0	0.7	1.0	1.0	0.9	1.0

Sources: ECT, 2000.
TEC, 2000.

Table 4. Hookers Point Station
IC Engine Netting Analysis - Unit 4 Historical Emissions

	Unit 4 (tpy)						
	1995	1996	1997	1998	1999	95-99, 5 Yr Avg	98,99 Avg
No. 1,2 Oil (10^3 gal)		12.0	12.0	15.0	10.0	12.3	12.5
Wt % S		0.25	0.16	0.40	0.01	0.21	0.21
No. 6 Oil (10^3 gal)		3,228.0	2,969.0	2,822.0	3,325.0	3,086.0	3,073.5
Wt % S		0.90	1.01	0.91	0.94	0.94	0.93
Waste Oil (10^3 gal)		0.0	0.0	5.3	19.0	6.1	12.2
Wt % S		0.00	0.00	1.72	1.50	0.81	1.61
NO_x AOR	71.0	109.1	115.0	106.0	196.0	119.4	151.0
CO AOR	5.0	8.0	7.0	7.0	8.3	7.1	7.7
SO_2 (AP-42)		228.3	235.5	202.8	247.6	228.6	225.2
SO_2 (AOR)	153.0	241.1	237.0	243.0	404.0	255.6	323.5
H_2SO_4 AP-42	6.8	10.2	10.5	9.0	11.0	9.5	10.0
PM_{10} AOR	16.0	24.0	21.0	27.0	48.0	27.2	37.5
PM AOR	16.0	24.0	21.0	27.0	48.0	27.2	37.5
Pb AOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOC AOR	1.0	1.0	1.0	1.0	1.3	1.1	1.1

Sources: ECT, 2000.
TEC, 2000.

Table 5. Hookers Point Station
IC Engine Netting Analysis - Unit 5 Historical Emissions

	Unit 5 (tpy)						
	1995	1996	1997	1998	1999	95-99, 5 Yr Avg	98,99 Avg
No. 1,2 Oil (10^3 gal)		12.0	9.0	6.1	9.0	9.0	7.6
Wt % S		0.25	0.16	0.40	0.40	0.30	0.40
No. 6 Oil (10^3 gal)		1,709.0	4,278.0	4,172.0	5,431.0	3,897.5	4,801.5
Wt % S		0.90	1.01	0.91	0.94	0.94	0.93
Waste Oil (10^3 gal)		0.0	0.0	5.3	19.0	6.1	12.2
Wt % S		0.00	0.00	1.72	1.50	0.81	1.61
NO_x AOR	28.0	57.2	121.0	182.0	198.0	117.2	190.0
CO AOR	2.0	4.0	11.0	10.0	13.6	8.1	11.8
SO_2 (AP-42)		121.0	339.3	298.9	403.3	290.6	351.1
SO_2 (AOR)	61.0	127.2	260.0	247.0	464.0	231.8	355.5
H_2SO_4 AP-42	2.7	5.4	15.1	13.3	17.9	10.9	15.6
PM_{10} AOR	6.0	12.0	35.0	58.0	51.0	32.4	54.5
PM AOR	6.0	12.0	35.0	58.0	51.0	32.4	54.5
Pb AOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOC AOR	0.0	1.0	1.6	2.0	2.1	1.3	2.0

Sources: ECT, 2000.
TEC, 2000.

Table 6. Hookers Point Station
IC Engine Netting Analysis - Unit 6 Historical Emissions

	Unit 6 (tpy)						
	1995	1996	1997	1998	1999	95-99, 5 Yr Avg	98,99 Avg
No. 1,2 Oil (10^3 gal)		0.0	0.0	0.0	0.0	0.0	0.0
Wt % S		0.00	0.00	0.00	0.00	0.00	0.00
No. 6 Oil (10^3 gal)		545.0	2,746.0	2,684.0	5,325.0	2,825.0	4,004.5
Wt % S		0.90	1.01	0.91	0.94	0.94	0.93
Waste Oil (10^3 gal)		0.0	0.0	5.3	19.0	6.1	12.2
Wt % S		0.00	0.00	1.72	1.50	0.81	1.61
NO_x AOR	80.0	18.0	63.0	60.0	127.0	69.6	93.5
CO AOR	6.0	1.4	7.0	7.0	13.3	6.9	10.2
SO_2 (AP-42)		38.5	217.7	192.4	395.2	211.0	293.8
SO_2 (AOR)	175.0	40.0	208.0	204.0	421.0	209.6	312.5
H_2SO_4 AP-42	7.8	1.7	9.7	8.6	17.6	9.1	13.1
PM_{10} AOR	18.0	4.0	27.0	16.0	41.0	21.2	28.5
PM AOR	18.0	4.0	27.0	16.0	41.0	21.2	28.5
Pb AOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOC AOR	1.0	0.2	1.0	1.0	2.0	1.0	1.5

Sources: ECT, 2000.
TEC, 2000.

Table 7. Hookers Point Station
IC Engine Netting Analysis - Units 1- 6 Historical Emissions

	Units 1- 6 (tpy)							PSD Thresholds (tpy)	Hookers Pt Bubble (tpy)
	1995	1996	1997	1998	1999	95-99, 5 Yr Avg	98,99 Avg		
No. 1,2 Oil (10^3 gal)		33.0	27.0	29.1	28.0	29.3	28.6		
Wt % S									
No. 6 Oil (10^3 gal)		12,947.0	14,492.0	15,436.0	19,771.0	15,661.5	17,603.5		
Wt % S									
Waste Oil (10^3 gal)		0.0	0.0	31.8	114.0	36.5	72.9		
Wt % S									
NO_x AOR	405.0	435.4	513.0	530.0	755.0	527.7	642.5	39.9	682.4
CO AOR	30.0	31.5	36.1	39.0	49.5	37.2	44.2	99.9	144.1
SO_2 (AP-42)		915.4	1,149.3	1,107.9	1,472.9	1,161.4	1,290.4	39.9	1,330.3
SO_2 (AOR)	879.0	960.4	1,157.0	1,260.0	1,790.0	1,209.3	1,525.0	39.9	1,564.9
H_2SO_4 AP-42	39.1	40.7	51.1	49.3	65.5	49.1	57.4	6.9	64.3
PM_{10} AOR	97.0	103.0	199.0	180.0	205.0	156.8	192.5	14.9	207.4
PM AOR	97.0	103.0	199.0	180.0	205.0	156.8	192.5	24.9	217.4
Pb AOR	0.00	0.00	0.00	0.00	0.04	0.01	0.02	0.59	0.61
VOC AOR	5.0	5.2	5.3	7.0	7.5	6.0	7.3	39.9	47.2

Sources: ECT, 2000.
TEC, 2000.

7099 3400 0000 1449 4338

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Mr. Darryl Scott

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Mr. Darryl Scott

Street, Apt. No.; or PO Box No.

1700 Hemlock St

City, State, ZIP+4

Tampa, FL 33605-6660

PS Form 3800, July, 1999 — See Reverse for Instructions

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

January 30, 2001

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Darryl Scott
General Manager
Tampa Electric Company
1700 Hemlock Street
Tampa, Florida 33605-6660

Re: Request for Additional Information
DEP File No. 0570038-002-AC
Hookers Point Station - Installation of 30 internal combustion engines

Dear Mr. Scott:

On January 23, 2001 the Department received your application for a modification to the air construction permit for the existing Hookers Point Facility. This modification is intended to add thirty internal combustion engines to the facility. The application is incomplete. In order to continue processing your application, the Department will need the additional information requested below. Should your response to any of the below items require new calculations, please submit the new calculations, assumptions, reference material and appropriate revised pages of the application form.

1. Page 14 of the application requests 8,760 hours per year operation for the referenced internal combustion engines. Based on full time operation of the engines, the facility will not have enough offsets available, specifically for NO_x, to remain below the PSD significant emission rate thresholds for major modification. If the intent of the project is to limit the hours of operation of the thirty internal combustion engines, then resubmit the maximum operating schedule and recalculate emissions for all the affected pollutants.
2. If available, please provide emissions data for the six boilers for the year 2000. Also, provide the operating hours history for all six boilers. Please explain the reasons for the pollutant emissions, specifically NO_x and SO_2, to be high in 1999 for boilers number 3, 4, 5 and 6 as compared to other years.
3. The Caterpillar Diesel Generator Set Performance Data as submitted with the application indicates that the diesel engine NO_x emission limit in California is 6.9 g/hp-hr whereas for this project an emission limit of 9.22 g/hp-hr is being proposed. Please indicate if the California emission limit is established with some add-on controls. If not, then why is the same limit not proposed for this project.

MS 5505

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

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Mr. Darryl Scott
General Manager
Tampa Electric Company
1700 Hemlock Street
Tampa, Fl 33605-6660

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The Department will resume processing your application after receipt of the requested information. Rule 62-4.050(3), F.A.C. requires that all applications for a Department permit must be certified by a professional engineer registered in the State of Florida. This requirement also applies to responses to Department requests for additional information of an engineering nature. Material changes to the application should also be accompanied by a new certification statement by the authorized representative or responsible official. Permit applicants are advised that Rule 62-4.055(1), F.A.C. now requires applicants to respond to requests for information within 90 days. We are still waiting for comments from the Southwest District as well as Hillsborough County. Those comments will be forwarded to you as soon as we receive them. If there are any questions, please call Syed Arif at 850/921-9528.

Sincerely,

1/30

A.A. Linero, P.E. Administrator
New Source Review Section

AAL/sa

cc: J. Kissel, SWD
J. Campbell, EPCHC
T. Davis, ECT
S. Todd, TEC

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1. Article Addressed to:

Mr. Darryl Scott
General Manager
Tampa Electric Company
1700 Hemlock St
Tampa, Fl 33605-6660

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C. Signature

X ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

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1. Article Addressed to:

Mr. Darryl Scott, Gen. Mgr.
Hookers Point Station
Tampa Electric Company
PO Box 111
Tampa, FL 33601-0111

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* | B. Date of Delivery 4/4/7

C. Signature
X ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
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☐ Registered ☐ Return Receipt for Merchandise
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4. Restricted Delivery? *(Extra Fee)* ☐ Yes

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Mr. Darryl Scott
Street, Apt. No.; or PO Box No.
PO Box 111
City, State, ZIP+4
Tampa, FL 33601-0111

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1. Article Addressed to:

Mr. Darryl Scott, Gen. Mgr.
Tampa Electric Company
PO Box 111
Tampa, FL 33601-0111

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* B. Date of Delivery 4/25/

C. Signature
X ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)*
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Mr. Darryl Scott

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

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Mr. Darryl Scott
Street, Apt. No.; or PO Box No.
PO Box 111
City, State, ZIP+4
Tampa, Fl 33601-0111

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