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BUREAU OF AIR REGULATION

December 4, 2001

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

Via Fed Ex
Airbill No. 7902 3411 2545

**Re: Tampa Electric Company (TEC)
Bayside Power Station
Air Construction Permit
DEP File No. 0570040-015-AC (PSD-FL-301A)**

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 Friday, November 30 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

EA/bmr/SKT296

Enclosure

c(enc): Mr. Tom Davis - ECT
Mr. Jerry Campbell, EPCHC
Mr. Buck Oven, FDEP
Mr. Scott Sheplak, FDEP
Mr. Jerry Kissel - FDEP SW
Mr. John Bunyak - NPS

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REC 05 2001

THE TAMPA TRIBUNE
Published Daily
Tampa, Hillsborough County, Florida

State of Florida }
 County of Hillsborough } ss.

BUREAU OF RECORDS

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

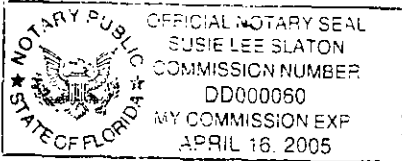
was published in said newspaper in the issues of NOVEMBER 30, 2001

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 30 day
 of NOVEMBER, A.D. 20 01

Personally Known or Produced Identification _____
 Type of Identification Produced _____



Susie Lee Slaton

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 Tampa Electric Company
 Bayside Power Station,
 Gannon Re-Powering
 Project

Project No. 0570040-015-AC
 Draft Permit PSD-FL-301A
 The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit to the Tampa Electric Company to re-power the existing F. J. Gannon power plant on Tampa's Port Sutton Road in Hillsborough County, Florida. The re-powered plant will be renamed the Bayside Power Station and will have a nominal electrical production capacity of 2845 MW. The applicant's authorized representative is Ms. Karen Sheffield, the General Manager of the Bayside Power Station. The applicant's mailing address is Bayside Power Station, Port Sutton Road, Tampa, FL 33619.

The applicant proposes to re-power the existing Gannon Station with eleven new combined cycle gas turbines. Each new unit will consist of a nominal 170 MW General Electric Model PG7241(FA) gas turbine with heat recovery steam generator. The new combined cycle units will be grouped to re-power the existing steam-electric turbines for existing Gannon Units 3, 4, 5, and 6. The re-powering project will increase the nominal electrical generating capacity of this plant to 2845 MW. The overall thermal efficiency of the plant is predicted to increase from approximately 30% to 55%. All existing Gannon coal-fired boilers will be shut down prior to January 1, 2005. Because the existing plant is a PSD-major source of air pollution, new projects are subject to the preconstruction review requirements for the Prevention of Significant Deterioration (PSD) of Air Quality in Rule 62-212.400, F.A.C. The re-powering project will result in the following potential annual emissions: 1383 tons per year of carbon monoxide; 1113 tons per year of nitrogen oxides (NOx); 1.4 tons per year of lead; 368 tons per year of particulate matter (PM/PM10); 89 tons per year of sulfuric acid mist (SAM); 487 tons per year sulfur dioxide (SO2); and 135 tons per year of volatile organic compounds (VOC). The project is significant for emissions of CO, PM/PM10, and VOC. Due to the large emissions reductions from the shutdown of the existing coal-fired boilers, the project nets out of PSD review for emissions of NOx, SAM, and SO2. After the shutdown of all coal-fired units, the re-powering project will reduce emissions of: nitrogen oxides by more than 28,000 tons per year; particulate matter by more than 1600 tons per year; sulfur dioxide by more than 60,000 tons per year; sulfuric acid mist by more than 900 tons per year; and lead by more than 18 tons per year.

The Department is required to determine the Best Available Control Technology (BACT) for the significant emissions of CO, PM/PM10, and VOC. For each of these pollutants, BACT is determined to be the efficient combustion design and exclusive firing of pipeline-quality natural gas. A continuous emissions monitoring system (CEMS) will be used to demonstrate compliance with the CO emissions standards and serve as an indicator of efficient combustion to minimize emissions of PM/PM10 and VOC.

The gas turbines incorporate dry low-NOx combustion technology and automated controls to minimize NOx emissions. The state and federal settlement agreements require the installation of a selective catalytic reduction (SCR) system to reduce NOx emissions. A continuous emissions monitoring system (CEMS) is required for acid rain monitoring and will be used to demonstrate compliance with the NOx emissions standard. The exclusive firing of pipeline-quality natural gas minimizes emissions of sulfuric acid mist (SAM) and SO2. Based on the most recent HAP emissions data available, the project does not trigger a 112(g) case-by-case MACT determination.

The applicant performed an air quality analysis in accordance with the Department's PSD requirements in Rule 62-212.400, F.A.C. Significant net increases in actual emissions were predicted for carbon monoxide and volatile organic compounds. The Department reviewed the applicant's analysis and modeling files. The ambient impact analysis predicted that emissions from the project would have an insignificant impact on Class II areas. Except for six national parks and wilderness areas, all of Florida is designated as a Class II area. No Class I significant impact levels have been defined for carbon monoxide or volatile organic compounds (ozone). The analysis also indicates that emissions from the project will not significantly contribute to or cause a violation of any state or federal ambient air quality standard when evaluated alone.

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 and requests for public meetings concerning the proposed permit issuance action for a period of thirty (30) days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 3500 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 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, F.S. 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 (14) 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), F.S. must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), F.S., 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, F.A.C.

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, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this 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
New Source Review Section
111 S. Magnolia Drive, Suite 4

Tallahassee, FL 32301
Telephone: 850/488-0114
Fax: 850/922-6979

Dept. of Environmental Protection
Southwest District Office
Air Resources

3804 Coconut Palm Drive
Tampa, FL 33619-8218

Telephone: 813/744-6100

Fax: 813/744-6084

Hillsborough County Environmental Protection Commission
Air Management Division
1410 North 21 Street
Tampa, FL 33605

813/272-5530

Fax: 813/272-5605

The complete project file includes the application, Technical Evaluation and Preliminary Determination, 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 Department's reviewing engineer for this project, at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

3919 11/30/01

Florida Department of
Environmental Protection

Memorandum

TO: Howard Rhodes
THRU: Clair Fancy *Admiral CHF 1/8*
Al Linero
FROM: Jeff Koerner *JK*
DATE: January 8, 2002
SUBJECT: Final Air Permit No. PSD-FL-301A
Project No. 0570040-015-AC
Tampa Electric Company, Bayside Power Station
F.J. Gannon Station Re-Powering Project

Jeff

Attached is the Final Permit that authorizes construction of eleven new natural gas-fired combined cycle combustion turbines to re-power the existing F.J. Gannon Station. The existing plant is renamed the "Bayside Power Station" and is located within the existing plant boundaries on Tampa's Port Sutton Road in Hillsborough County, Florida.

We distributed an "Intent to Issue Permit" package on November 26, 2001. The applicant published the "Public Notice" in The Tampa Tribune on November 30, 2001 and we received proof of publication on December 5, 2001. During the 30-day comment period, we received comments from the Environmental Protection Commission of Hillsborough County. As noted in the attached Final Determination, we made only minor changes to the draft permit.

Day 90 for this project is February 18, 2002. I recommend your approval and signature of the attached Final Permit.

Attachments

HLR/CHF/AAL/jfk

COMMISSION

PAT FRANK
CHRIS HART
JIM NORMAN
JAN PLATT
THOMAS SCOTT
RONDA STORMS
STACEY EASTERLING



ADMINISTRATIVE OFFICES, LEGAL &
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FAX (813) 272-5137

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TELEPHONE (813) 272-5530

WASTE MANAGEMENT DIVISION
TELEPHONE (813) 272-5788

WETLANDS MANAGEMENT DIVISION
TELEPHONE (813) 272-7104

EXECUTIVE DIRECTOR

RICHARD D. GARRITY, Ph.D.

**ENVIRONMENTAL PROTECTION COMMISSION
of Hillsborough County**

FAX Transmittal Sheet

DATE: Dec 10, 2001

TO: Jeff Koesmer

FAX Phone: 850-922-6979 Voice Phone: 850-921-9536

TOTAL NUMBER OF PAGES INCLUDING THIS COVER PAGE: 4

EPC FAX Transmission Line: (813) 272-5605
For retransmission or any FAX problems, call:
(813) 272-5530 ext. 1288

FROM: Pat Walck

(Circle applicable section below)

Air Division

-Compliance

-Monitoring/Toxics

-Enforcement/Analysis

-Permitting

SPECIAL INSTRUCTIONS: _____

COMMISSION

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JAN PLATT
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EXECUTIVE DIRECTOR
RICHARD D. GARRITY, Ph.D.



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December 10, 2001

Jeff Koerner
Department of Environmental Protection, Bureau of Air Regulation
2600 Blair Stone Road
Mail Station 5505
Tallahassee, FL 32399-2400

Re: Hillsborough County - AP
DEP File No. 0570040-015-AC
PSD-FL-301A

Dear Mr. Koerner:

Thank you for forwarding a copy of the Draft construction permit for Bayside Units 3 and 4 to EPC staff for review. After reviewing the draft construction permit, EPC staff offer the following comments for your consideration:

1. Technical Evaluation, Page 11, first sentence

Please verify the wording of the first complete sentence on this page. In reading the first sentence, it seems the sentence should state the applicant did not believe the additional controls would provide any measurable reductions in air quality impacts, when considering the context of the paragraph.

2. Technical Evaluation, Page 14, Low Load Operations and Section III, Specific Condition No. 17(b)

EPC staff is concerned this condition could be read to authorize the operation of all CTs at less than 50% load for three hours during any 24 hour period. Therefore, during any 24 hour period, the potential exists for a total of 33 hours of operation (all eleven CTs combined) below 50% load. EPC staff requests the CTs be limited to operating at or above 50% load at all times except during periods of CT startup and shutdown or tuning. During periods of CT startup and shutdown, EPC staff requests the number of CTs operating be limited to one CT per Bayside Unit operating below 50% load. EPC makes this request because as CTs are operated at reduced percentages of the maximum load the emission rates increase. EPC staff has determined it would be unreasonable to authorize the operation of a single CT at less than 50% load

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E-Mail: epcinfo@epchc.org



Jeff Koerner
December 6, 2001

Page 2

for a period of 33 hours which is equivalent to the condition as it is currently written. Specific Condition No. 13 states that the BACT relies on "good operating practices". EPC staff does not agree that authorizing the operation of eleven CTs at less than 50% load for up to three hours during any 24 hour period each represents good operating practices. Additionally, the draft permit requires the facility to remain in compliance with the emission limits of the permit, the permittee has not provided reasonable assurance a violation will not occur while operating at less than 50% load. Appendix C of the original permit application lists emission rates for operation between 50 and 100% load, but not less than 50% load.

3. Section II, Specific Condition No. 2

Please include notification to the Environmental Protection Commission of Hillsborough County as well as the Department.

4. Section II, Specific Condition No. 3

Please correct the title of the EPC. It should read "Environmental Protection Commission of Hillsborough County".

5. Section II, Specific Condition No. 11

Please include the rule quote for the definitions of construction and modification (Rule 62-210.200, F.A.C.).

6. Section II, Specific Condition No. 18(a)

The condition states the visible emission test shall be 30 minutes in duration. EPC staff request the duration of the initial visible emissions tests be extended to 3 hours to remain consistent with 40 CFR 60.11(b) and 40 CFR 60.335(b).

7. Section III, Specific Condition No. 14(d)

Since a satisfactory visible emissions test and CO limits are used as surrogates for VOC and PM emissions, if an exceedance of the visible emissions standard or an exceedance of the CO standard occurs does this also mean that TEC has also had exceedances for VOC and PM as well? Please note, the permit states that VOC and PM emissions are expected to be below a certain level (12 lbs/hr for PM and 1.3 ppmvd at 15% oxygen for VOC). Also the Technical Evaluation lists potential emissions of PM and VOC of 367.9 tpy and 134.9 tpy respectively for Bayside Units 1 through 4. Please clarify the compliance status of the facility in case of visible emissions or CO exceedances with respect to PM and VOC.

8. Section III, Specific Condition No. 19

In the first line on page 13, please clarify the wording. EPC staff believe the sentence should read, "...the test methods for are included..".

9. Section III, Specific Condition No. 25

Please include in the semiannual reports the ammonia injection

Jeff Koerner
December 6, 2001

Page 3

rate, or range, for the period addressed in each report for each CT. This will allow EPC staff to verify the ammonia injection rate was appropriate during periods of NOx monitor downtimes or malfunctions and provide reasonable assurance the system will perform adequately.

10. Section II, Specific Condition Nos. 22, 23, and 24 and Section III, Specific Condition No. 19

Please include the Environmental Protection Commission of Hillsborough County in any references to the availability of records or the requirement for special tests.

If you have any questions, please feel free to contact Rob Kalch at (813) 272-5530.

Sincerely,



Alice H. Harman, P.E.
Chief, Air Permitting Section

cc: Ms. Karen Sheffield, General Manager, TEC-Bayside Power Station