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DIVISION OF AIR
RESOURCE MANAGEMENT

November 3, 2011

Mr. Jeff Koerner
Florida Department of Environmental Protection
Division of Air Resource Management
Office of Air Permitting and Compliance
2600 Blair Stone Road, M.S. 5505
Tallahassee, Florida 32399-2400

Via FedEx
Airbill No. 7953 6696 3651

Re: Tampa Electric Company
Air Operation Permit
Proof of Publication of the Intent to Issue
DEP File No. ~~0570040-029-AV~~ 105 0233-027-AC

Dear Mr. Koerner:

Pursuant to Rule 62-110.106(5), F.A.C., enclosed is the proof of publication of the Notice of Intent to Issue the Tampa Electric Company Polk Power Station Permit authorizing the installation and operation of a temporary pre-commercial scale demonstration project consisting of a high-temperature syngas cleanup system and an integrated carbon capture and sequestration system at Polk Power Station Unit 1. This notice was published in the legal section of The Ledger on October 31, 2011.

Thank you for your attention to this matter. If you have any concerns or questions feel free to contact me or Rob Velasco at (813) 228-4232.

Sincerely,

Byron T. Burrows, P.E., BCEE
Manager, Air Programs
Environmental, Health & Safety

EHS\WIK\LAP511

Enclosure

c/enc: Cindy Zhang-Torres-FDEP SW District

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AFFIDAVIT OF PUBLICATION THE LEDGER Lakeland, Polk County, Florida

STATE OF FLORIDA)
COUNTY OF POLK)

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DIVISION OF AIR RESOURCE MANAGEMENT

Before the undersigned authority personally appeared Carl Holweg, who on oath says that he is a Sales Executive at The Ledger a daily newspaper published at Lakeland in Polk County, Florida; that the attached copy of advertisement, being a

Public Notice of Intent

in the matter of Tampa Electric Company

concerning Polk Power Station

was published in said newspaper in the issues of 10-31; 2011

Affiant further says that said The Ledger is a newspaper published at Lakeland, in said Polk County, Florida, and that the said newspaper has heretofore been continuously published in said Polk County, Florida, daily, and has been entered as second class matter at the post office in Lakeland, in said Polk County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

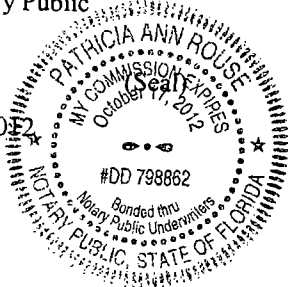
Signed.....

Carl Holweg
Carl Holweg
Sales Executive
Who is personally known to me.

Sworn to and subscribed before me this 31st
day of October..... A.D. 2011

Patricia Ann Rouse
Notary Public

My Commission Expires - October 17, 2012



PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT
Florida Department of Environmental Protection
Division of Air Resource Management, Office of Permitting and Compliance
Draft Air Permit No. 1050233-027-AC
Tampa Electric Company, Polk Power Station Unit 1
Polk County, Florida

Applicant: The applicant for this project is Tampa Electric Company (TECO). The applicant's authorized representative and mailing address is: Karen Sheffield, Director, TECO Polk Power Station, Post Office Box 111, Tampa, Florida 33601-0111.

Facility Location: TECO owns and operates the existing Polk Power Station (PPS), which is located in Polk County at 9995 State Road 37 South, in Mulberry, Florida.

Project: TECO PPS Unit 1 is an existing solid fuel-based integrated gasification and combined cycle (IGCC) with a nominal electrical generating capacity of 260 megawatts. The primary solid fuels are coal and petroleum coke. The applicant proposes to construct and operate a temporary pre-commercial scale demonstration project consisting of a high-temperature synthetic gas (syngas) cleanup system and an integrated carbon capture and sequestration system. These cleanup systems will be integrated with Unit 1 and will treat approximately 20 percent of the syngas prior to combustion.

The high-temperature syngas cleanup system will include the following processes: a high-temperature desulfurization process to remove more than 99.9% of sulfur in the syngas; a trace contaminant removal process that will reduce arsenic, selenium and mercury concentrations in the syngas; and a direct sulfur recovery process that will convert the sulfur dioxide (SO₂) to commercial-grade elemental sulfur. The high level of sulfur removal in the high-temperature desulfurization process will provide a syngas stream which will undergo the water gas shift reaction to convert water (H₂O) and carbon monoxide (CO) to hydrogen (H₂) and carbon dioxide (CO₂). Thereafter, activated methyldiethanolamine (aMDEA) will be used to capture 90% of the CO₂ in the cleaned syngas for subsequent geological sequestration.

Emission sources associated with this demonstration project include two small heaters, one sorbent storage hopper, one regenerator fines storage bin and one amine surge drum. The demonstration project will result in the following potential emissions: 3.5 tons/year (TPY) of CO; 6.5 TPY of nitrogen oxides (NO_x); 1 TPY of particulate matter (PM); PM with a mean particle diameter of 10 microns or less (PM₁₀) and PM with a mean particle diameter of 2.5 microns or less (PM_{2.5}); 0.7 TPY of sulfur dioxide (SO₂); and 0.4 TPY of volatile organic compounds (VOC).

The demonstration project is planned to commence construction in March 2012 and be completed by April 2013. The goal for the operation phase is to achieve at least 8,000 hours of operation during an approximate 18 month demonstration period, which is expected to be completed in the third quarter of 2015.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Office of Permitting and Compliance in the Department of Environmental Protection's Division of Air Resource Management. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's phone number is 850-717-9000.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the physical address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application and information submitted by the applicant (exclusive of confidential records under Section 403.111, F.S.). Interested persons may contact the Permitting Authority's project engineer for additional information at the address and phone number listed above. In addition, electronic copies of these documents are available on the following web site by entering the facility number (1050233) where indicated:
<http://www.dep.state.fl.us/air/emission/apds/default.asp>.

Notice of Intent to Issue Air Permit: The Permitting Authority gives notice of its intent to issue an air construction permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 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 (in a proceeding initiated by another party) 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 Permitting Authority'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 rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (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 including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the 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 Permitting Authority'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 Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available for this proceeding.