



# Progress Energy

April 17, 2007

RECEIVED

APR 18 2007

BUREAU OF AIR REGULATION

Mr. Jeff Koerner, P.E.  
DEP/DARM  
North Permitting Section  
Division of Air Resource Management  
2600 Blair Stone Road MS 5500  
Tallahassee, Florida 32399-2400

Re: Crystal River Power Plant – Permit Number 0170004-016-AC – Affidavit of Publication

Dear Mr. Koerner:

In accordance with Ms. Trina Vielhauer's letter to Mr. Cumbie dated March 19, 2007, we have published the public notice in the Citrus County Chronicle on April 11, 2007.

Attached is the Affidavit of Publication.

If you have any questions, please contact me at (727) 820-5295. Thank you very much for processing the Construction permit.

Best Regards,

Dave Meyer, P.E.  
Senior Environmental Specialist

XC: Bernie Cumbie

Attachment

# Proof of Publication

from the

## CITRUS COUNTY CHRONICLE

Crystal River, Citrus County, Florida

PUBLISHED DAILY

STATE OF FLORIDA

COUNTY OF CITRUS

Before the undersigned authority personally appeared

Amanda K. O'Kelley

Of the Citrus County Chronicle, a newspaper published daily at Crystal River, in Citrus County, Florida, that the attached copy of advertisement being a public notice in the matter of the

**534-0411 WCRN**

**PROGRESS ENERGY**

**PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT**

Was published in said newspaper in the issue of April 11<sup>th</sup>, 2007.

Affiant further says that the Citrus County Chronicle is a Newspaper published at Crystal River in said Citrus County, Florida, and that the said newspaper has heretofore been continuously published in Citrus County, Florida, each week and has been entered as second class mail matter at the post office in Inverness in said Citrus 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/she 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.

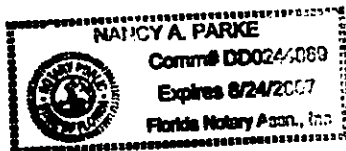
The foregoing instrument was acknowledged before me

This 11<sup>th</sup> day of April, 2007.

By: Amanda K. O'Kelley

who is personally known to me and who did take an oath.

Nancy A. Parke  
Notary Public



534-0411\ACRN

## PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection  
Division of Air Resource Management, Bureau of Air Regulation

Project No. 0170004-016-AC / Draft Air Permit No. PSD-FL-383  
Progress Energy Florida, Inc., Crystal River Power Plant  
Citrus County, Florida

**Applicant:** The applicant for this project is Progress Energy Florida, Inc. The applicant's authorized representative and mailing address is: Mr. Bernie Cumbie, Plant Manager, Crystal River Power Plant, Progress Energy Florida Inc., 100 Central Avenue, CN77, St. Petersburg, Florida, 33701.

**Facility Location:** Progress Energy Florida, Inc. operates the existing Crystal River Power Plant, which is located in the Crystal River Energy Complex in Citrus County, north of Crystal River and west of U.S. Highway 19.

**Project:** To provide full flexibility in implementing the federal cap and trade program for nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) under the Clean Air Interstate Rule, the applicant proposes to install new burners, new selective catalytic reduction systems, new flue gas desulfurization systems, and new stacks for the existing coal-fired Units 4 and 5. In conjunction with the proposed new control equipment, the applicant requests the flexibility to fire additional fuel blends (sub-bituminous coal and petroleum coke) and recognition of the true maximum heat input rates for Units 4 and 5. The applicant also proposes to install a new carbon burn-out system that will return fly ash generated at this plant to recover the remaining heating value in this material and minimize the onsite landfilling of fly ash. Finally, the applicant requests authorization for a trial period to evaluate a new fuel additive intended to reduce slagging and improve emissions performance.

Due to the installation of new control systems and slightly lower emissions standards, potential emissions of NO<sub>x</sub> and SO<sub>2</sub> will decrease from previous actual annual emissions rates. Based on the air permit application, the project will result in potential emissions increases of: 9217 tons per year of carbon monoxide (CO); 116.5 tons per year of particulate matter (PM); 68.3 tons per year of particulate matter with a mean diameter of less than 10 microns (PM<sub>10</sub>); 449.0 tons per year of sulfuric acid mist (SAM); and 89.3 tons per year of volatile organic compounds (VOC). As defined in Rule 62-210.200 of the Florida Administrative Code (F.A.C.), the project results in significant net emissions increases for CO, PM/PM<sub>10</sub>, SAM, and VOC. Therefore, the project is subject to preconstruction review for the Prevention of Significant Deterioration (PSD) of Air Quality for these pollutants in accordance with Rule 62-212.400, F.A.C.

For each PSD-significant pollutant, the Department is required to determine the Best Available Control Technology (BACT) and approve the applicant's Air Quality Analysis regarding ambient impacts due to the project. The Department's preliminary BACT determinations for these pollutants are based on: the design of the new low-NO<sub>x</sub> burners and good combustion practices to minimize the formation of CO, PM/PM<sub>10</sub>, and VOC emissions; modifications to the existing electrostatic precipitators to improve PM/PM<sub>10</sub> removal efficiency; and installation of new alkali injection systems in addition to the flue gas desulfurization systems to mitigate the formation of SAM emissions.

The Department reviewed an air quality impact analysis prepared by the applicant. Based on the analysis, emissions from the project will not significantly contribute to, or cause a violation of, any state or federal ambient air quality standards. The table below shows the maximum predicted PSD increments for PM<sub>10</sub> consumed by all sources in the area, including this project. The Class II increments represent the increments in the vicinity of the project and the Class I increments represent the increments in the Chassahowitzka National Wildlife Area to the south of the project.

PM <sub>10</sub> Increment	Averaging Time	Allowable Increment (µg/m <sup>3</sup> )		Increment Consumed (µg/m <sup>3</sup> )	
		Increment	Percent	Increment	Percent
Class II	24-hour	30		27	90%
	Annual	17		7	41%
Class I	24-hour	8		4.5	56%
	Annual	4		0.4	10%

**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, 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 Florida Department of Environmental Protection's Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Bureau of Air Regulation's physical address is 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301 and the mailing address is 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Bureau of Air Regulation's phone number is 850/488-0114.

**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 address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address and phone number listed above.

**Notice of Intent to Issue Air Permit:** The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all applicable 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 Draft Permit for a period of thirty (30) days from the date of publication of the Public Notice. Written comments must be post-marked by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly and in a newspaper of general circulation in the area affected by the permitting action. For additional information, contact the Permitting Authority at the above address or phone number. If written comments or comments received at a public meeting result in a significant change to the Draft Permit, the Permitting Authority will issue a Revised 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, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2241; Fax: 850/245-2303). 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 this Public Notice or receipt of a written notice.

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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 interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact; (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 Written 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 in this proceeding.