



Farzie Shelton, chE; REM

Associate GM Technical Support

**FedEx Priority Overnight**

February 21, 2007

Ms. Trina L. Vielhauer, Chief  
Bureau of Air Regulation  
Department of Environmental Protection  
2600 Blair Stone Road, MS 5505  
Tallahassee, Florida 32399-2400

RECEIVED

FEB 22 2007

BUREAU OF AIR REGULATION

**Re: DEP File No. 1050004-018-AC (PSD-FL-387)  
C.D. McIntosh Jr. Power Plant – Unit 3**

Dear Ms. Vielhauer:

We are in receipt of your letter dated February 16, 2007 and attached Drafts PSD Permit, Technical Evaluation and Preliminary Determination, and Public Notice of Intent to Issue PSD Permit.

Pursuant to the requirements of Chapter 50, Florida Statutes, on February 19, 2007 we published the "Public Notice of Intent to Issue PSD Permit" in the Lakeland Ledger. Therefore, enclosed please find Affidavit of Publication confirming the legal advertisement of the Department's notice.

If you should have any questions, please do not hesitate to contact me.

Sincerely,

*for* Farzie Shelton

Enclosure

cc: Mr. Al Linero P.E. (FDEP – Tallahassee)  
Mr. Tom Cascio (FDEP – Tallahassee)  
Ms. Mara Grace Nasca (FDEP – Southwest District)

City of Lakeland • Department of Electric Utilities

501 East Lemon Street • Lakeland, FL 33801-5050 • 863. 834.6603 • Fax 863. 834.8187 • Cell 863.860.5998

[farzie.shelton@lakelandelectric.com](mailto:farzie.shelton@lakelandelectric.com)

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# AFFIDAVIT OF PUBLICATION

## THE LEDGER

### Lakeland, Polk County, Florida

Case No's:

STATE OF FLORIDA  
COUNTY OF POLK

Before the undersigned authority personally appeared Paula Freeman, who on oath says that she is Inside Classified Sales Manager, The Ledger, a daily newspaper published at Lakeland in Polk County, Florida; that the attached copy of advertisement, being a

Notice of Intent

in the matter of Dep File 105004-018-AC-PND-FL-087

Concerning City of Lakeland/McIntosh, Fr. Power Plant

was published in said newspaper in the issues of 2-19, 2007

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.

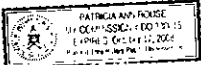
Signed Paula Freeman  
Paula Freeman  
Inside Classified Sales Manager  
Who is personally known to me.

Sworn to and subscribed before me this 19<sup>TH</sup>

day of February A.D. 2007

Patricia Ann Lamb  
Notary Public

(Seal)



My Commission Expires

X134

**PUBLIC NOTICE OF INTENT TO FILE PER PERMITS**  
STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
311 DEPT. BUILDING, TALLahas, FL 32309

**Lakeland Electric, (The Company) C.D. McIntosh, Fr. Power Plant**  
311 DEPT. BUILDING, TALLahas, FL 32309

The Department of Environmental Protection (Department) gives notice of its intent to issue a permit under the requirements for the Prevention of Significant Deterioration of Air Quality (PSD) Permit to Lakeland Electric, (The Company) C.D. McIntosh, Fr. Power Plant located at 3300 Colgate Road, Lakeland, Polk County, Florida. The permit authorizes installation of Low NOx burners (LNB) and an override on (O/A) system on the Unit 3 fossil fuel steam generator. A Best Available Control Technology (BACT) determination was required for emissions of carbon monoxide (CO) pursuant to Rule 62-212 AD-1100, Florida Administrative Code (F.A.C.). The company's permit application, Lakeland Electric, 301 Lakeland Street, Lakeland, FL 33850.

The Lakeland Electric, (The Company) C.D. McIntosh, Fr. Power Plant fossil fuel steam generator, two fossil powered generators, and two gas turbines. Total fuel-fired steam generation is currently fired with coal and lower content of petroleum coke and waste-derived fuel. Reasons for (O/A) emissions are controlled by a selective catalytic converter (SCR) system and a particulate matter (PM10) is controlled by an electrostatic precipitator (ESP). Sulfur dioxide (SO2) emissions are controlled by a wet limestone scrubber.

The Company proposes to install a newer generation set of LNBs, an override on (O/A) system and an emission control selective catalytic converter (SCR) system on the Unit 3. The program will be conducted in several two phases. The first will occur during an outage in early 2007 during which the new LNBs and the O/A system are installed. A subsequent permitting review will occur the following year. The primary purpose of the permit will be to increase nitrogen oxide (NOx) emissions from Unit 3. The Unit 3 LNBs will be fired for the first phase. The Company will install 12 complete Advanced Burner Systems (ABS) for the first phase. The Company will also install 12 complete Advanced Burner Systems (ABS) for the first phase. The Company will also install 12 complete Advanced Burner Systems (ABS) for the first phase. The Company will also install 12 complete Advanced Burner Systems (ABS) for the first phase.

The effect of the project is that it will cause increases of carbon monoxide (CO) emissions. The Department conducted a BACT determination and is proposing a limit of 530 pounds of CO per month (30 days) for the Unit 3. The Department also requires the installation of a continuous emission monitoring system (CEMS) for determination of compliance with the BACT limit on a bi-hourly basis.

Since the LNB and O/A installation is part of a phased project, the Department will release the BACT determination after reviewing data collected over the first phase. The review will be incorporated into the permit review conducted for the second phase of the overall project.

The Department conducted an on-site or modeling analysis and concluded that the present phase of the project will not result in any violation of the permit or quality standards for CO. The Department will issue the first PSD Air Construction Permit unless a response received in accordance with the following procedures results in a different decision or significant change in the project conditions.

1. If a permit application is received within the time period specified in the notice, the Department will conduct a public hearing and request for a public hearing concerning the proposed permit application for a period of 30 days from the date of publication of the Public Notice. The Department will also conduct a public hearing and request for a public hearing concerning the proposed permit application for a period of 30 days from the date of publication of the Public Notice. The Department will also conduct a public hearing and request for a public hearing concerning the proposed permit application for a period of 30 days from the date of publication of the Public Notice.

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