



Jeb Bush  
Governor

# Department of Environmental Protection

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

FILE

David B. Struhs  
Secretary

CERTIFIED MAIL - Return Receipt Requested

January 29, 2004

Ms. Karen Sheffield  
General Manager  
Big Bend Station  
Tampa Electric Company  
P.O. Box 111  
Tampa, FL 33601-0111

RE: Request for Additional Information for Air Construction Permit  
Application No. 0570039-014-AC  
NO<sub>x</sub> Pollution Control Projects  
Big Bend Station, Hillsborough County

Dear Ms. Sheffield:

The referenced permit application is incomplete. In order to continue processing this permit application, the Department will need the following additional information:

1. Though Box 10 of the Facility Regulatory Classifications list on page 9 of the application was not checked, Big Bend is subject to 40 CFR Part 63 Subpart II - Shipbuilding and Ship Repair (Surface Coating). Please submit a corrected page 10.
2. The application states that addition of the NO<sub>x</sub> controls does not change previously submitted Operation and Maintenance plan for boiler Units 1-4. Please verify that no additions need to be made to the Operation and Maintenance plan currently on file. The date the previous Operation and Maintenance was submitted to the Department was not included in this application but it was more than five years ago.
3. Page 33 of the application erroneously states that the maximum heat input rate for boiler Unit 2 is 4037 million Btu/hr. The maximum permitted heat input rate for Unit 2 is 3996 million Btu/hr. Please submit a corrected page 33.
4. Page 55 of the application erroneously states that, for boiler Unit 3, NO<sub>x</sub> is a pollutant that is not emissions-limited nor subject to any work practice standard. In fact, Unit No. 3 shall not emit more than 0.70 of a pound of nitrogen oxides (expressed as NO<sub>2</sub>) per million BTU heat input based upon a 30-day rolling average. Please submit a corrected page 55.
5. Pages 17, 34, 51, and 68 of the application, reference points on a Plot Plan or Flow Diagram. However, neither a Plot Plan nor Flow Diagram was submitted with the application. Please submit.

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6. For boiler Unit 4, please submit the installation date of the Separate Overfire Air (SOFA) and the actual or projected initial startup date.
7. It is understood that the low-NO<sub>x</sub> burners have already been installed. Please submit the date that the installation of the low-NO<sub>x</sub> burners was completed for each of the four boilers and the respective start-up date after installation. What percent reduction in NO<sub>x</sub> has it achieved?
8. For pages 22, 39, 56, and 73 of the application, "F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION", please complete these pages for NO<sub>x</sub> and any other pollutant that may be impacted by the addition of the NO<sub>x</sub> controls.
9. The diagram of the "Typical Windbox Configuration" which is included in Attachment A has several illegible identifying labels. Please resubmit a clarified diagram.
10. What parameters does the boiler Unit 2 neural network system monitor? Please submit the date the installation of the system was completed. Has the system been optimized yet? What percent reduction in NO<sub>x</sub> has it achieved?
11. For which boiler units has coal and air flow monitoring been installed? Please submit the dates the installation of the monitoring was completed and the start-up dates after installation. What percent reduction in NO<sub>x</sub> has monitoring achieved?

As a reminder, 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. Permit applicants are advised that Rule 62-4.055(1), F.A.C. requires applicants to respond to requests for information within 90 days.

If you have any questions regarding this request for additional information, please contact me at [Cindy.Phillips@dep.state.fl.us](mailto:Cindy.Phillips@dep.state.fl.us) or 850/921-9534.

Sincerely,



Cindy L. Phillips, P.E.  
Bureau of Air Regulation

c: Shelley Castro, TEC  
Thomas W. Davis, P.E., ECE  
Alice Harman, EPCHC  
Jerry Kissel, SWD