



TAMPA ELECTRIC
February 23, 2004

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BUREAU OF AIR REGULATION

Mr. Mike Halpin,
Florida Department of
Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road MS 5500
Tallahassee, Florida 32399-2400

Via FedEx
Airbill No. 7905 5758 7819

**Re: Tampa Electric Company
Biomass Test Burn
Polk Power Station Unit 1
Facility ID No. 1050233**

Dear Mr. Halpin:

As per our conversation on February 9, 2004, attached is an updated copy of the process flow diagram for Tampa Electric Company's (TEC) Biomass Test Burn at Polk Power Station. Since the submittal of the test burn application, the location of the biomass input into the gasification process has changed from being introduced into the charrah blunger tank of the charrah system to introducing the biomass into the coal silos. The reason for this change is a result of some problems experienced during the first Biomass Test Burn more than a year ago. During the first Biomass Test Burn, large pieces of debris within the biomass as well as larger pieces of biomass caused pluggage in the pumps and filters in the charrah system. This in turn caused a forced outage of the charrah system to unclog the affected equipment. To avoid a potential forced outage of the charrah system, TEC has decided to change the biomass input into the gasification process to the coal silos. Fuel from the coal silos enters two rod mills at the slurry building, where it is mixed with water and grinded into slurry, and then pumped to into gasifier. TEC believes this minor process change will help avoid any impacts to the charrah system and provide another opportunity for the biomass to be grinded prior to entering the gasifier.

TAMPA ELECTRIC COMPANY
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TEC appreciates the Department's consideration of this process change and submits the updated copy of the process flow diagram to be included with the test burn application. If you have any questions or comments, please contact me at (813) 228-4408.

Sincerely,

A handwritten signature in black ink that reads "Shelly Castro". The signature is written in a cursive style with a large, looping initial "S".

Shelly Castro
Associate Engineer,
Environmental, Health & Safety

Enclosure

EA/bmr/SSC176

cc: Mr. Scott Sheplak, FDEP
Mr. Joel Smolen, FDEP SW DIST

Polk Power Station Unit 1
Bahia Grass Biomass Burn Test
Process Flow Diagram
Revised 2/2/04

