



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

July 30, 2009

Ms. Barbara P. Linkiewicz
Director of Environmental Licensing
Florida Power & Light Company
700 Universe Blvd.
Juno Beach, Florida 33408

Certified Mail
Return Receipt Requested

Re: Florida Power & Light Company (FPL)
Turkey Point Plant
Units 6 and 7
NPDES Permit No. FL0001562
Request for Additional Information (RFI #1) for Permit Revision

Dear Ms. Linkiewicz:

On June 30, 2009, the Department received your application for a substantial permit revision of the above referenced permit. After reviewing the application, the Department has determined that the submittal is incomplete and additional information will be required pursuant to Rules 62-620.410(1) and 62-620.510(1), Florida Administrative Code, before your application can be further processed. Attachment 1 describes the additional information needed to further process your application. Please provide, within 45 days from receipt of this letter, three copies of the requested additional information to the Industrial Wastewater Section in Tallahassee and one copy to the Department's Southeast District office in West Palm Beach.

If you have any questions concerning our comments, please contact Bala Nori or me at (850) 245-8589.

Sincerely,

Marc Harris, P.E.
Supervisor, Power Plant NPDES Permitting
Industrial Wastewater Section

MH/bn

Attachment

cc: William Jefferson, FPL
Robert Tomonto, FPL
Tim Powell, P.E., DEP West Palm Beach
Mike Halpin, P.E., DEP Siting Office
Justin Wolfe, Esq., DEP Tallahassee

Attachment 1

General:

- Comment 1: As the responses to the requests below require engineering or geotechnical review and calculations, please submit the responses, as appropriate, under the seal of the Professional Engineer or Geologist of Record for this project in accordance with Chapter 471 or Chapter 492, F.S.

Form 2CS:

- Comment 2: Please provide characterization of the storm water from the following areas: Units 6 and 7, reclaimed water treatment facility; and radial collector well area. The characterization should be based on the existing and proposed activities in these areas.
- Comment 3: Please provide a topographic map with a suitable scale extending one-quarter mile beyond the property boundaries of the facility, showing:
- the storm water conveyance and discharge structures;
 - an outline of the storm water drainage areas for each storm water discharge point;
 - paved areas and buildings;
 - areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates;
 - location of existing or future storm water structural control measures/practices (dikes, coverings, detention facilities, etc.);
 - surface water locations and/or municipal storm drain locations;
 - areas of existing and potential soil erosion;
 - vehicle service areas;
 - material loading, unloading, and access areas; and
 - direction of storm water flow.
- Comment 4: Please provide the following:
- hydrologic analysis for direct storm water runoff of a 25-year, 3-day storm event, including assumptions, calculations, and a hydrograph;
 - hydraulic analysis for storm water conveyance system from Units 6 and 7 to the cooling canal system, including assumptions and calculations for hydraulic characteristics (e.g., flow rate, trench drain, etc.); and
 - hydraulic analysis for cooling canal system, including assumptions and calculations for cool canal system capacity and change in freeboard resulting from direct storm water runoff of a 25-year, 3-day storm event.
- Comment 5: Please provide design details for the proposed Unit 6 and 7 marine water intake structure, including the existing and design water velocity, in ft/s, at the water-sediment interface of Biscayne Bay and Card Sound. In addition, please provide information on the potential for hydrodynamic changes to the Turkey Point cooling canal system and the groundwater beneath the canal system resulting from the operation of the Unit 6 and 7 intake structures.
- Comment 6: Please describe potential impacts on the benthic organisms in Biscayne Bay and Card Sound as a result of operating the Unit 6 and 7 intake structure.

- Comment 7: Please provide details of any maintenance activities associated with the proposed Unit 6 and 7 marine water intake structure. In addition, please provide details on the final disposition of any wastewater associated with these maintenance activities.
- Comment 8: Please clarify whether the hypersaline water from the cooling canal system will be used in whole or in part as make-up water for Unit 6 and 7 cooling towers.
- Comment 9: Please note that it is the Department's intent to use the collected data from the surface water and ground water monitoring program stipulated in Section X of the FPL Turkey Point license (PA03-45), issued under the Florida Electrical Power Plant Siting Act on June 19, 2009, to determine the fate and transport of chemicals in the cooling canal system.