

**September 9, 2008**

**FDEP, SFWMD, and MDC**

**Recommended Consolidated Condition of Certification for**

**FPL's Turkey Point Units 3 and 4 Uprate**

**Surface Water, Ground Water, Ecological Monitoring and Compliance Condition**

This recommended condition is a consolidated recommended condition agreed upon by three agencies, Department of Environmental Protection ("DEP"), Miami-Dade County Department of Environmental Resource Management ("DERM) and the South Florida Water Management District ("SFWMD"). This consolidated condition sets forth the framework for new monitoring and, as may be needed, abatement or mitigation measures, for approval of Florida Power & Light's ("FPL") Turkey Point Units 3 and 4 Uprate Application. Specific monitoring and potential modeling parameters will be identified and implemented pursuant to a monitoring plan as part of a supplemental agreement between FPL and the SFWMD as described below.

In addition to the monitoring framework set forth in this consolidated condition, within 180 days after Certification, FPL shall execute an SFWMD approved Fifth Supplemental Turkey Point Agreement ("Fifth Supplemental Agreement") to the original 1972 Agreement between FPL and the SFWMD pertaining to FPL's obligation to monitor for impacts of the Turkey Point cooling canal system on the water resources of the SFWMD in general and the facilities and operations of the SFWMD (the "Agreement"). Subject to the SFWMD's approval, FPL shall also amend the Agreement's Revised Operating Manual as referenced in paragraph C. "Monitoring Provisions" (the "Revised Plan") of the Fourth Supplemental Agreement, dated July 15, 1983. The Revised Plan shall be incorporated into the Fifth Supplemental Agreement and shall include assessment of potential impacts to surface water and ground water including wetlands, as needed, in the vicinity of the cooling canal system. The specific monitoring boundaries shall be determined as part of the Revised Plan.

The Revised Plan shall be designed to be in concurrence with other existing and ongoing monitoring efforts in the area and shall include but not necessarily be limited to, surface water, groundwater and water quality monitoring, and ecological monitoring to: 1) delineate the vertical and horizontal extent of the hyper-saline plume that originates from the cooling canal system and to characterize the water quality including salinity and temperature impacts of this plume for the baseline condition; 2) determine the extent and effect of the groundwater plume on surface water quality as a baseline condition; and 3) detect changes in the quantity and quality of surface and ground water over time due to the cooling canal system associated with the Uprate project. The Revised Plan shall include installation and monitoring of an appropriate network of wells and surface water stations. The Revised Plan shall be approved by the SFWMD in consultation with the DEP Office of Coastal and Aquatic Managed Areas, the DEP Southeast District Office and DERM.

FPL shall transmit electronic copies of all data and reports required under the Fifth Supplemental Agreement and the Revised Plan to: the SFWMD, Director, Water Supply (or alternative transmittal procedures to be described in the Fifth Supplemental Agreement); Miami-Dade County, Director, DERM; DEP, Director, Southeast District Office; DEP Site Certification

Officer; and to DEP, Director, Biscayne Bay Aquatic Preserve Manager, in accordance with timeframes as approved in the Fifth Supplemental Agreement.

If the DEP in consultation with SFWMD and DERM determines that the pre- and post-Uprate monitoring data: is insufficient to evaluate changes as a result of this project; indicates harm or potential harm to the waters of the State including ecological resources; exceeds State or County water quality standards; or is inconsistent with the goals and objectives of the CERP Biscayne Bay Coastal Wetlands Project, then additional measures, including enhanced monitoring and/or modeling, shall be required to evaluate or to abate such impacts. Additional measures include but are not limited to:

- 1) the development and application of a 3-dimensional coupled surface and groundwater model (density dependent) to further assess impacts of the Uprate Project on ground and surface waters; such model shall be calibrated and verified using the data collection during the monitoring period;
- 2) mitigation measures to offset such impacts of the Uprate Project necessary to comply with State and local water quality standards, which may include methods and features to reduce and mitigate salinity increases in groundwater including the use of highly treated reuse water for recharge of the Biscayne Aquifer or wetlands rehydration;
- 3) operational changes in the cooling canal system to reduce any such impacts; and/or
- 4) other measures to abate impacts as may be described in the Revised Plan.

Sections 373.016, 373.223, Florida Statutes and Rules 40E-4.011, 40E-4.301, 40E-4.302, Florida Administrative Code. Sections 62-302 and 62-520, Florida Administrative Code. Section 24-42; Code of Miami-Dade County; Miami-Dade County Comprehensive Development Master Plan (CDMP) Land Use Element; Conservation Element; Intergovernmental Coordination Element; Coastal Management Element.