FPL.

L-2011-098
10 CFR 52.3

March 17, 2011

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555-0001

Re: Florida Power & Light Company
Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
NRC June 2010 Environmental Audit
Submittal of Groundwater Flow Model (MODFLOW) Calculation Revision 4
Input/Output Files

References:

1. FPL Letter L-2009-144 to NRC, dated June 30, 2009, Application for Combined License for Turkey Point Units 6 & 7
2. NRC Memorandum A. Kugler to R. Whited, dated September 21, 2010, Summary of the Environmental Site Audit Related to the Review of the Combined License Application for Turkey Point Units 6 and 7
3. FPL Letter L-2011-082 to NRC, dated February 28, 2011, NRC June 2010 Environmental Audit Submittal of Groundwater Model Development and Analysis: Units 6 & 7 Dewatering and Radial Collector Well Simulations, Revision 1

FPL submitted the Groundwater Model Development and Analysis: Units 6 & 7 Dewatering and Radial Collector Well Simulations, Revision 1 (Reference 3) and informed the NRC that the revision to the groundwater model calculation (Revision 4) had been completed and a copy placed in the Reading Room for inspection. The letter also stated the input/output files for the groundwater model will be provided by separate letter.

The purpose of this letter is to provide the Groundwater Flow Model (MODFLOW) Calculation Revision 4 Input/Output Files (Enclosure) associated with the Groundwater Model Development and Analysis: Units 6 & 7 Dewatering and Radial Collector Well Simulations, Revision 1. The information on the enclosed hard drive is described in the attachment.

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The materials provided on the enclosed hard drive are to assist the NRC staff with their review. As discussed with the NRC, the data provided on the enclosed hard drive is not convertible to PDF files. Consequently, the information submitted herein does not comply with the requirements for electronic submission in NRC Guidance Document, "Guidance for Electronic Submissions to the NRC," dated May 17, 2010.

If you have any questions, or need additional information, please contact me at 561-691-7490.

Sincerely,

William Maher
Senior Licensing Director – New Nuclear Projects

Attachments/Enclosures:

Attachment: List of Florida Power & Light Company (FPL) groundwater model simulations

Enclosure: Hard Drive, Groundwater Flow Model (MODFLOW) Calculation Revision 4 Input/Output Files. (1 copy)

cc:
PTN 6 & 7 Project Manager, AP1000 Projects Branch 1, USNRC DNRL/NRO w/o enclosure
PTN 6 & 7 Environmental Project Manager, USNRC DSER/NRO w/enclosure (2 copies)
Regional Administrator, Region II, USNRC w/o enclosure
Senior Resident Inspector, USNRC, Turkey Point Plant 3 & 4 w/o enclosure

Attachment

List of Florida Power & Light Company (FPL) groundwater model simulations

Date: February 23, 2011

Analyses performed for the FPL groundwater model simulations were run on an HP xw8600 workstation, with Intel® Xeon® E5440 CPU, Windows XP Professional (x64 Edition, Version 2003, Service Pack 2) operating system. The numerical modeling calculations were prepared using Schlumberger's Visual MODFLOW 2009 Pro.

A list of model simulations enclosed with the transmittal is provided in Table 1.

Table 1

List of model simulations, corresponding stage (calibration, construction, or post-construction), folder name, and file name of the Visual MODFLOW file (vmf) included in the enclosure.

SIMULATION	STAGE	FOLDER NAME AND FILE NAME
Pumping Test: PW-7L	CALIBRATION	PW-7L\PW-7L.vmf
Pumping Test: PW-1	CALIBRATION	PW-1\PW-1.vmf
Pumping Test: PW-7U	CALIBRATION	PW-7U\PW-7U.vmf
Pumping Test: PW-6U	CALIBRATION	PW-6U\PW-6U.vmf
Grouting: Unit 6 (Grout hydraulic conductivities of 1e-3 cm/s, 1e-4 cm/s, 1e-5 cm/s and 1e-6 cm/s, respectively)	CONSTRUCTION	Grouting_Unit6_1e-3\GROUTING.vmf Grouting_Unit6_1e-4\GROUTING.vmf Grouting_Unit6_1e-5\GROUTING.vmf Grouting_Unit6_1e-6\GROUTING.vmf
Grouting: Unit 7 (Grout hydraulic conductivities of 1e-3 cm/s, 1e-4 cm/s, 1e-5 cm/s and 1e-6 cm/s, respectively)	CONSTRUCTION	Grouting_Unit7_1e-3\GROUTING.vmf Grouting_Unit7_1e-4\GROUTING.vmf Grouting_Unit7_1e-5\GROUTING.vmf Grouting_Unit7_1e-6\GROUTING.vmf
Radial Collector Wells (RCWs): Upper High Flow Zone (UHFZ) and Key Largo (KL)	POST-CONSTRUCTION	RCW_UHFZ\RCW.vmf RCW_KL\RCW.vmf

RCWs: Biscayne Bay General Head Boundary (half and doubling of the vertical hydraulic conductivities and conductance values in Biscayne Bay, respectively)	POST-CONSTRUCTION	RCW_0.5Kv\RCW.vmf RCW_2Kv\RCW.vmf
RCWs: Seasonal High Tide (0.09 ft) and Seasonal Low Tide (-1.40 ft)	POST-CONSTRUCTION	RCW_0.09ft\RCW.vmf RCW_-1.40ft\RCW.vmf
RCWs: Hydraulic Conductivity Sensitivity of Key Largo	POST-CONSTRUCTION	RCW_Red\RCW.vmf RCW_Blue\RCW.vmf