

PMTurkeyCOLPEm Resource

From: Terry, Tomeka
Sent: Thursday, June 16, 2011 8:24 AM
To: Orthen, Richard; Brown, Alison; Bortone, Pilar; Franzone, Steve; Hamrick, Steven; Madden, George; Maher, William
Cc: TurkeyCOL Resource; Kugler, Andrew; Terry, Tomeka; Bryce, Robert W; Weisman, Robert
Subject: Final RAI EIS 2.3 (RAI No. 5763) - Hydrology
Attachments: ML1116505973.pdf

Rick,

Attached is RAI EIS 2.3 (Hydrology) for the Turkey Point COL Application. If you have any questions, please contact me.

Tomeka L. Terry
Environmental Project Manager
NRO/DSER/RAP2
U.S. Nuclear Regulatory Commission
301-415-1488
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Hearing Identifier: TurkeyPoint_COL_Public
Email Number: 358

Mail Envelope Properties (0A64B42AAA8FD4418CE1EB5240A6FED132ABCE1FCC)

Subject: Final RAI EIS 2.3 (RAI No. 5763) - Hydrology
Sent Date: 6/16/2011 8:23:46 AM
Received Date: 6/16/2011 8:23:49 AM
From: Terry, Tomeka

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Files	Size	Date & Time
MESSAGE	309	6/16/2011 8:23:49 AM
ML1116505973.pdf	90318	

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Priority: Standard

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Recipients Received:

June 14, 2011

Mr. Mano K. Nazar
Senior Vice President
and Chief Nuclear Officer
Florida Power & Light Company
Mail Stop NNP/JB
700 Universe Blvd
Juno Beach, FL 33408-0420

SUBJECT: ENVIRONMENTAL REQUEST FOR ADDITIONAL INFORMATION LETTER
110614 RELATED TO ESRP SECTION 2.3, WATER, FOR THE COMBINED
LICENSE APPLICATION REVIEW FOR TURKEY POINT, UNITS 6 AND 7

Dear Mr. Nazar:

By letter dated June 30, 2009, as supplemented by letters dated August 7, 2009, September 3, 2010, and December 21, 2010, Florida Power and Light Company (FPL) submitted its application to the U.S. Nuclear Regulatory Commission (NRC) for combined licenses (COLs) for two AP1000 advanced passive pressurized water reactors in accordance with the requirements contained in 10 CFR Part 52, "Licenses, Certifications and Approvals for Nuclear Power Plants." The NRC staff is performing a detailed review of this application to enable the staff to reach a conclusion regarding the environmental impacts of the proposed action.

The NRC staff has identified that additional information is needed to continue portions of the environmental review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 45 days of the date of this letter. If you are unable to provide a response within 45 days, please state when you will be able to provide the response. In the event the response submitted is incomplete, please indicate in the response when the complete response will be provided. If changes are needed to the final safety analysis report, the staff requests that the RAI response include the proposed wording changes. Your response should also indicate whether any of the information provided is to be withheld as exempt from public disclosure pursuant to 10 CFR 2.390.

M. Nazar

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If you have any questions or comments concerning this matter, you may contact me at 301-415-2828, or via e-mail to Andrew.kugler@nrc.gov.

Sincerely,

/ RA /

Andrew Kugler, Sr. Project Manager
Environmental Projects Branch 2
Division of Site and Environmental Reviews
Office of New Reactors

Docket Nos. 52-040 and 52-041

Enclosure:
As stated

cc: w/enclosure see next page

M. Nazar

- 2 -

If you have any questions or comments concerning this matter, you may contact me at 301-415-2828, or via e-mail to Andrew.kugler@nrc.gov.

Sincerely,

/ RA /

Andrew Kugler, Sr. Project Manager
Environmental Projects Branch 2
Division of Site and Environmental Reviews
Office of New Reactors

Docket Nos. 52-040 and 52-041
eRAI Tracking No. 5763

Enclosure:
As stated

cc: w/enclosure see next page

DISTRIBUTION:

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ADAMS Accession Number: ML111650597

NRO-002

OFFICE	NRO/RENV/ RWET	NRO/DSEIR/RAP2/PM	OGC	NRO/DSEIR/RAP2/PM
NAME	MHaque*	AKugler*	PMoulding*	AKugler*/ TTerry for/
DATE	05/04/2011	05/04/2011	05/04/2011	06 /14 /2011

* Approval captured electronically in the electronic RAI system.

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Request for Additional Information No. 5763 Revision 2

6/14/2011

Turkey Point Units 6 and 7
Florida P and L
Docket No. 52-040 and 52-041
SRP Section: EIS 2.3 - Water
Application Section: Part 3, Environmental Report, Section 2.3

QUESTIONS for Environmental Technical Support Branch (RENV)

EIS 2.3-1

The identification of consumptive surface water users is provided as a GIS overlay (ER Figure 2.3-51). Figure 2.3-52 provides water needs for agricultural crops. Quantify the consumptive use and withdrawals by volume and duration for each of the identified users and the source of any data that are available. Data for monthly intervals is requested to show the seasonal variability of the withdrawals.

EIS 2.3-2

Provide a copy of the "Hydrologic Study" required by Miami Dade County Resolution Z-56-07.

EIS 2.3-3

Provide a current potentiometric map for the Upper Floridan aquifer in addition to the 1980 potentiometric surface map provided in the ER. This information is requested to allow the staff to determine flow directions within the Upper Floridan Aquifer (UFA) and potential for vertical flow from the Boulder Zone to the UFA.

EIS 2.3-4

Provide an analysis of tidal oscillations in site monitoring wells in both the Key Largo and Miami limestone to determine aquifer diffusivity (T/S) and evaluate influence of the cooling canals as a head boundary on the observed tidal response. Provide water level data used in the analysis and the calculations.

EIS 2.3-5

Canal flows from Caccia and Boyer 2005 for the wet and dry seasons have been cited in ER Table 2.3-13. Provide flows for the L31E and Model Land Canal, as well as other canals near the site shown in Figure 2.3-10. The flow data should include flows to illustrate the seasonal variability such as wet and dry seasons.

Enclosure

EIS 2.3-6

The spatial variability of water quality constituent concentrations is provided in ER Tables 2.3-31 and 2.3-32 for the surface waters of Biscayne Bay and the industrial wastewater facility system. The tables provide monthly average concentrations at each station. To better define the temporal variability of the constituent concentrations, provide maximum and minimum concentrations for each month's data. Include information for any Biscayne Bay stations not previously reported in the region potentially influenced by the radial wells, and in regions affected by potential exchange with the cooling canal system of the industrial wastewater facility, Card Sound, and other local canals.