

December 8, 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  
1112082 RELATED TO ESRP SECTION 9.3, ALTERNATIVE SITES, 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 COL application, 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 301-415-1878 or via e-mail at [Alicia.williamson@nrc.gov](mailto:Alicia.williamson@nrc.gov).

Sincerely,

**/ RA /**

Alicia Williamson, Project Manager  
Environmental Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-040, 52-041

Enclosure:  
As stated

cc: w/enclosure see next page

M. Nazar

- 2 -

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Sincerely,

**/ RA /**

Alicia Williamson, Project Manager  
Environmental Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-040, 52-041  
eRAI Tracking No. 5769

Enclosure:  
As stated

cc: w/enclosure see next page

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**ADAMS Accession Number: ML113420019**

**NRO-002**

<b>OFFICE</b>	NRO/RENV/ RWET	NRO/DSER/RAP2/ PM	OGC	NRO/DNRL/EPB1/ PM
<b>NAME</b>	MHaque*	AKugler*	PMoulding*	AKugler for AWilliamson *
<b>DATE</b>	05/04/2011	05/04/2011	05/04/2011	12/08/2011

\* Approval captured electronically in the electronic RAI system.

**OFFICAL RECORDS COPY**

Request for Additional Information No. 5769

12/8/2011

Turkey Point Units 6 and 7  
Florida P and L  
Docket No. 52-040 and 52-041  
SRP Section: EIS 9.3 - Alternative Sites  
Application Section: Part 3, Environmental Report, Section 9.3

QUESTIONS for Environmental Technical Support Branch (RENV)

EIS 9.3-19

Provide current and past water usage from the Floridan Aquifer at the West County Fossil Plant including flow, and hydrogeologic strata, and depth range from which the water was obtained. The applicant's experience with water withdrawals from the Floridan Aquifer at the nearby West County plant will inform the staff on how agencies might handle similar requests involving the Floridan Aquifer for alternative sites.

EIS 9.3-20

Provide water quality information for all water resources considered as viable sources of water or receivers of effluent for the alternative sites (Glades, Martin, Okeechobee 2, and St. Lucie), including but not limited to the Floridan Aquifer, Biscayne Aquifer, Kissimmee River, C-43 and C-44 canals, and the Atlantic Ocean near St. Lucie. Parameters provided should include TDS, nitrogen, phosphorus, dissolved oxygen, carbon, inorganics/metals, and organic contaminants.

EIS 9.3-21

Provide the receiving water bodies and expected rates of discharge for the plant excavation dewatering for each alternative site (Glades, Martin, Okeechobee 2, St. Lucie).

EIS 9.3-22

Provide information on the calculation of flow rates available from surface water and groundwater resources listed in the ER at each alternative site (groundwater only for St. Lucie). Clarify whether droughts and population trends and resulting demand on water resources were considered in the site selection process.

EIS 9.3-23

For all alternative sites (Glades, Martin, Okeechobee 2, and St. Lucie), clarify if makeup water reservoirs will be necessary. If they are needed, provide an estimate of the volume and acreage necessary for the reservoirs at each site, and the basis for the sizing of the reservoirs.

ENCLOSURE

EIS 9.3-24

Where excavation is necessary, estimate the total volume to be excavated for each alternative site and identify where spoils from building the plant would likely be placed.