

TurkeyPointRAIsPEm Resource

From: Comar, Manny
Sent: Wednesday, July 11, 2012 3:51 PM
To: TurkeyPointRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LTR. No: 64 RELATED TO SRP: 03.05.03
BARRIER DESIGN PROCEDURES FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED
LICENSE APPLICATION
Attachments: PTN-RAI-LTR-064.doc

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Subject: REQUEST FOR ADDITIONAL INFORMATION LTR. No: 64 RELATED TO SRP:
03.05.03 BARRIER DESIGN PROCEDURES FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED
LICENSE APPLICATION

Sent Date: 7/11/2012 3:50:50 PM

Received Date: 7/11/2012 3:50:51 PM

From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:

"TurkeyPointRAIsPEm Resource" <TurkeyPointRAIsPEm.Resource@nrc.gov>

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Expiration Date:

Recipients Received:

July 11, 2012

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: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 064 RELATED
TO SRP SECTION.03.05.03 BARRIER DESIGN PROCEDURES SYSTEM FOR
THE TURKEY POINT NUCLEAR PLANT UNITS 6 AND 7 COMBINED
LICENSE APPLICATION

Dear Mr. Nazar:

By letter dated June 30, 2009, as supplemented by letters dated August 7, 2009, September 3, 2010, December 21, 2010 and December 16, 2011, Florida Power and Light submitted its application to the U. S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for two AP1000 advanced passive pressurized water reactors pursuant to 10 CFR Part 52. The NRC staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the 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.

If you have any questions or comments concerning this matter, you may contact me at 301-415-3863 or manny.comar@nrc.gov.

Sincerely,

/RA/

Manny Comar, Lead Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-040
52-041

Enclosure:
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-3863 or manny.comar@nrc.gov.

Sincerely,

/RA/

Manny Comar, Lead Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-040
52-041
eRAI Tracking No. 6544

Enclosure:
Request for Additional Information

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NAME	MSampson*	MComar*	MComar*
DATE	4/26/12	6/08/12	7/11/12

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information ERAI 6544

Issue Date: 7/11/2012

Application Title: Turkey Point Units 6 and 7 - Dockets 52-040 and 52-041

Operating Company: Florida P and L

Docket No. 52-040 and 52-041

Review Section: 03.05.03 - Barrier Design Procedures

Application Section: FSAR sections 3.3.2 & 3.5.3

QUESTIONS

03.05.03-34

This is a follow-up to RAI No. 6251 (for FSAR Section 2.3.1).

The staff reviewed the response to RAI No. 6251. In the area pertaining to the local and global analysis of the Auxiliary Building concrete walls, the staff requests the following information:

1 - The staff request clarification on the use of the hurricane wind and missile impact load as it relates to Section 3.8.4.3.1.3 of the AP1000 DCD, where extreme environmental loads are defined. Given that the information in RG 1.221 indicates that the Turkey Point site may be prone to hurricane missile velocities higher than tornado missile velocities, structural demands from tornado missile loads may not bound those from hurricane missile loads. The staff requests the applicant to explain how the hurricane wind and missile impact loads (from the automobile missile) are considered (or not) as extreme environmental loads described in the AP1000 DCD. If hurricane loads (wind and missiles) are not considered in the structural analysis, provide a technical basis for not considering the hurricane wind and missile loads.

2 - The consideration given to opening of protective barriers, as explained in Section 3.5.2 of the AP1000 DCD. The missile spectrum in both RG 1.76 and RG 1.221 includes a 1-inch diameter steel sphere to test the configuration of openings in the protective barriers. Given that the information in RG 1.221 indicates that the Turkey Point site may be prone to hurricane missile velocities higher than tornado missile velocities, the staff is concerned that the higher missile velocity of the steel sphere could generate greater damage than previously estimated for tornado. The response to RAI No. 6251 does not provide information to address this issue. The applicant is requested to address the impact of the increased velocity of the 1-in diameter steel sphere on the openings of protective barriers.

Please provide sufficient detail in your responses to demonstrate that the design of protective barriers (including openings) adequately address site-specific hurricane wind and missile speeds. Responses should provide reasonable assurance that the barrier design is adequate for the Turkey Point site.

