TurkeyPointRAIsPEm Resource

From: Comar, Manny
Sent: Tuesday, June 16, 2015 1:33 PM
To: TurkeyPointRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LTR NO 85 RELATED TO SRP SECTION 2.5.1 BASIC GEOLOGICAL AND SEISMIC INFORMATION FOR TURKEY POINT UNITS 6 and 7 COL APPLICATION
Attachments: PTN-RAI-LTR-085.doc

Hearing Identifier: TurkeyPoint_COL_eRAIs
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Subject: REQUEST FOR ADDITIONAL INFORMATION LTR NO 85 RELATED TO SRP SECTION 2.5.1 BASIC GEOLOGICAL AND SEISMIC INFORMATION FOR TURKEY POINT UNITS 6 and 7 COL APPLICATION
Sent Date: 6/16/2015 1:33:02 PM
Received Date: 6/16/2015 1:33:03 PM
From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:
"TurkeyPointRAIsPEm Resource" <TurkeyPointRAIsPEm.Resource@nrc.gov>
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Options
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Return Notification: No
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Sensitivity: Normal
Expiration Date:
Recipients Received:

June 16, 2015

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.085 RELATED TO SRP SECTION 02.05.01 BASIC GEOLOGIC AND SEISMIC INFORMATION 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, December 16, 2011, December 14, 2012 December 16, 2013, October 29, 2014 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 30 days of the date of this letter. If you are unable to provide a response within 30 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 Licensing 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 Licensing Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-040
52-041
eRAI Tracking No. 7950

Enclosure:
Request for Additional Information

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NAME	RKarass*	MComar*	MComar*
DATE	6/04/15	6/05/15	6/16/15

*Approval captured electronically in the electronic RAI system.

Request for Additional Information Letter no: 85
Application Title: Turkey Point Units 6 and 7
Operating Company: Florida Power and Light
Docket No. 52-040 and 52-041
Review Section: 02.05.01 - Basic Geologic and Seismic Information

QUESTIONS

02.05.01-38

In eRAI 7804, Question 2.5.1-36, staff asked you to provide a discussion of a fault identified by seismic reflection data and located in Biscayne Bay (Cunningham et al 2012) that was not previously included in the FSAR. In your response, you cite a new publication (Cunningham, 2015). Staff examined that report, which identifies an additional, potentially geologically young, tectonic feature, located east of Miami, on the Miami Terrace, about 30 miles from TPNPP, which is not described in the TPNPP FSAR. Figure 14 in Cunningham 2015 clearly shows a tectonic anticline with uplifted truncated seismic reflections assigned to the top of the lower Arcadia Formation. Horizontal buried wave cut terraces on the flank of the anticline indicate uplift and erosion of the lower Arcadia Formation followed by deposition of late Pliocene or early Pleistocene-age sediments. Cunningham suggests that this compression, uplift and reverse faulting is consistent with compressional stresses in the Cuban fold and thrust belt and cites Masaferro and others, 1999. The author also suggests that this compression event is consistent with the timing of tectonic movement of the Santaren anticline.

a) In support of 10 CFR 100.23, please provide a discussion of this tectonic feature with respect to TPNPP and integrate into the regional tectonic setting for the TPNPP COLA.

b) Discuss how this feature might affect the PSHA at TPNPP in light of sensitivity analyses completed for the Santaren Anticline (~170 miles from TP) and the sensitivity analyses completed for the Walker's Cay fault (~200 mile from TP).

02.05.01-39

In eRAI 7804, Question 2.5.1-37, staff requested a map showing all limestone dissolution features found in the TPNPP site vicinity. The 2 figures you provided in the RAI response are very low resolution, and the features are not on one map to show the position of these features relative to TP site. Please either provide a revised map, or alternately provide a table of coordinates for all these features.