

TurkeyPointRAIsPEm Resource

From: Comar, Manny
Sent: Friday, December 02, 2011 11:39 AM
To: TurkeyPointRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 044 RELATED TO SRP SECTION: 02.05.04 FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED LICENSE APPLICATION
Attachments: PTN-RAI-LTR-044.doc

Hearing Identifier: TurkeyPoint_COL_eRAIs
Email Number: 51

Mail Envelope Properties (377CB97DD54F0F4FAAC7E9FD88BCA6D0806F8F5184)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 044 RELATED TO
SRP SECTION: 02.05.04 FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED LICENSE
APPLICATION

Sent Date: 12/2/2011 11:39:06 AM

Received Date: 12/2/2011 11:39:08 AM

From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:

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

Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	13	12/2/2011 11:39:08 AM
PTN-RAI-LTR-044.doc	56314	

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

December 2, 2011

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. 044 RELATED
TO SRP SECTION 02.05.04 STABILITY OF SUBSURFACE MATERIALS AND
FOUNDATIONS 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 and December 21, 2010, 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 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. 6184

Enclosure:
Request for Additional Information

Distribution:

Public	BWeisman	BHughes
RidsNroDnrINwe1	JSebrosky	MComar
RidsNroLAKGoldstein	DMcGovern	TGalletta
RidsOgcMailCenter	BAnderson	RJoshi
RidsAcrcsAcnwMailCenter	DMisenhimer	SPrice
RidsRgn2MailCenter	DHabib	RKaras
AMinarik	JCruz	AStieve

NRO-002

OFFICE	RGS1/BC	NWE1/PM	NWE1/L-PM
NAME	RKaras*	MComar*	MComar*
DATE	11/7/11	11/7/11	11/17/11

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information No. 6184
12/2/2011

Turkey Point Units 6 and 7
Florida P and L
Docket No. 52-040 and 52-041
SRP Section: 02.05.04 - Stability of Subsurface Materials and Foundations
Application Section: 2.5.4

QUESTIONS from Geosciences and Geotechnical Engineering Branch 1 (RGS1)

02.05.04-25

FSAR Section 2.5.4.2.1.3.4 states that the core recovery and the rock quality designation (RQD) for the limestone layers are very inconsistent. Also, according to FSAR Section 2.5.4.2.3, Laboratory strength tests were performed on intact rock core samples from the Key Largo and Fort Thompson formations. However, no further discussion is presented in the FSAR about the characteristics of the rock mass for these formations. In order to better understand how the foundation bearing rock mass was characterized and in accordance with 10 CFR 100.23 (d) (4) and NUREG-0800, Standard Review Plan, Chapter 2.5.4, "Stability of Subsurface Materials and Foundations,"

- a) Please discuss how various geologic parameters such as voids and discontinuities (joints, faults, or bedding planes) influenced the overall rock mass behavior and thus, the rock mass classification.
- b) Please describe how the deformation modulus, compressive strength and shear strength parameters for rock mass were accounted for in the foundation stability analysis (settlement, bearing capacity).