

TurkeyPointRAIsPEm Resource

From: Comar, Manny
Sent: Wednesday, July 20, 2011 1:55 PM
To: TurkeyPointRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 032 RELATED TO SRP
SECTION 19- FOR THE TURKEY POINT NUCLEAR PLANT UNITS 6 & 7 COL
Attachments: PTN-RAI-LTR-032.doc

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Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 032 RELATED TO
SRP SECTION 19- FOR THE TURKEY POINT NUCLEAR PLANT UNITS 6 & 7 COL
Sent Date: 7/20/2011 1:55:29 PM
Received Date: 7/20/2011 1:55:30 PM
From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:
"TurkeyPointRAIsPEm Resource" <TurkeyPointRAIsPEm.Resource@nrc.gov>
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Options
Priority: Standard
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Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

July 20, 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. 032 RELATED
TO SRP SECTION 19- PROBABILISTIC RISK ASSESSMENT AND SEVERE
ACCIDENT EVALUATION 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. 5889

Enclosure:
Request for Additional Information

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NAME	LMrowca*	MComar*	BWeisman*	MComar*
DATE	6/30/11	7/3/11	7/3/11	7/13/11

*Approval captured electronically in the electronic RAI system.

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Request for Additional Information No. 5889

7/20/2011

Turkey Point Units 6 and 7

Florida P and L

Docket No. 52-040 and 52-041

SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation

Application Section: Chapter 19

QUESTIONS for PRA and Severe Accidents Branch (SPRA)

19-1

Part of AP1000 DCD COL Information Item 19.59.10-2 calls for the following action by COL applicants:

The Combined License applicant will confirm that the High Winds, Floods, and Other External Events analysis documented in Section 19.58 is applicable to the COL site. Further evaluation will be required if the COL site is shown to be outside of the bounds of the High Winds, Floods, and Other External Events analysis documented in Section 19.58.

To address the above, TPN COL 19.59.10-2 states:

It has been confirmed that the High Winds, Floods, and Other External Events analysis documented in Section 19.58 is applicable to the site...

Please provide supporting information or appropriate references that ensure that all of the key site-related assumptions, including, but not limited to external floods, and aviation, marine, pipeline, railroad, truck and nearby facility accidents, in the Section 19.58 External Events analyses are valid for the TPN site.

If external events have been screened from further evaluation, please (1) include a discussion of the external events screening approach used and the results of the approach, and (2) discuss why the expected core damage frequency and large release frequency of the screened events is insignificant compared to the quantitative results from other initiators. In addition, the following areas should be addressed:

- a. The criteria used to screen each event should be clearly identified. An example is the Westinghouse approach of screening at an initiating event frequency less than 1×10^{-7} per year or an associated core damage frequency (CDF) of less than 1×10^{-8} per year. These criteria should be consistent with the guidance in Standard Review Plan Section 19.0 to the effect that results of the PRA should indicate that the design represents a reduction in risk compared to operating plants.
- b. The screening should address a broad set of potential site-specific contributors, not only the events identified in APP-GW-GLR-101 (for an example, see non-mandatory Appendix 4-A of ASME RA-S). Additional events may include biological effects, temperature and drought effects on the ultimate heat sink, and turbine missiles. Any screening should be documented in the FSAR.

- c. The basis for the numerical values generated as part of the screening process should be discussed.

19-2

Table 19.58-201 provides the high winds and tornadoes PRA results. Please expand your risk results discussion for severe winds and tornadoes, including how the initiating event frequencies were calculated, related PRA assumptions, and the basis for concluding that a sufficient number of events have been observed over a large enough area to provide a representative sample.

19-3

In a letter dated August 23, 2010, regarding its requested AP1000 design certification, Westinghouse proposed a new COL information item related to site-specific features that may affect seismic margins. Please address this issue for the TPN site.