

TurkeyPointRAIsPEm Resource

From: Comar, Manny
Sent: Monday, August 15, 2011 8:14 AM
To: TurkeyPointRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 034 RELATED TO SRP SECTION 02.03..01 FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED LICENSE APPLICATION
Attachments: PTN-RAI-LTR-034.doc

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Email Number: 39

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Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 034 RELATED TO
SRP SECTION 02.03..01 FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED LICENSE
APPLICATION

Sent Date: 8/15/2011 8:14:15 AM

Received Date: 8/15/2011 8:14:17 AM

From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:

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

Tracking Status: None

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| MESSAGE | 8 | 8/15/2011 8:14:17 AM |
| PTN-RAI-LTR-034.doc | 55290 | |

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

August 15, 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. 034 RELATED
TO SRP SECTION 02.03..01- REGIONAL CLIMATOLOGY 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. 5908

Enclosure:
Request for Additional Information

Distribution:

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NRO-002

| OFFICE | RSAC/BC | NWE1/PM | OGC | NWE1/L-PM |
|--------|----------|---------|----------|-----------|
| NAME | RSchaff* | MComar* | BWeisman | MComar* |
| DATE | 7/12/11 | 7/18/11 | 7/26/11 | 7/26/11 |

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information No. 5908

8/15/2011

Turkey Point Units 6 and 7
Florida P and L
Docket No. 52-040 and 52-041
SRP Section: 02.03.01 - Regional Climatology
Application Section: Regional Climatology

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.01-2

10 CFR 52.17(a)(1)(vi) states, in part, that an application must contain the meteorological characteristics of the proposed site with appropriate consideration of the most severe of the natural phenomena that have been historically reported for the site and surrounding area and with sufficient margin for the limited accuracy, quantity, and time in which the historical data have been accumulated. NUREG-0800, Standard Review Plan (SRP), Section 2.3.1, Regional Climatology, establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations. SRP Section 2.3.1 states that the basic 100-year return period 3-second gust wind speed should be based on appropriate standards, with suitable corrections for local conditions.

PTN FSAR Section 2.3.1.3.1 describes the methodology used to derive the site characteristic basic wind speed of 161 mph from Figure 6-1B of ASCE/SEI 7-05. According to Table C6-2 of ASCE/SEI 7-05, the 100 year return period 3-second gust basic wind speed site characteristic value of 161 mph is equivalent to a Saffir-Simpson Category 4 hurricane. FSAR Section 2.3.1.3.3 presents information from the NOAA's Coastal Service Center (CSC) historical hurricane track database on the number of tropical cyclone storm tracks that have passed within a 100-nautical mile (nm) radius of the PTN site from 1851 through 2007. FSAR Section 2.3.1.3.3 states that there have been thirteen Category 3, ten Category 4, and three Category 5 hurricanes to pass within 100 nautical-miles of the PTN site.

Using this same NOAA-CSC database for the same period of record, the staff identified three hurricanes classified as Saffir-Simpson Category 5 at the time they made landfall within 100 nautical miles of the PTN site. For each of these three major hurricanes, the staff used the sustained wind speeds reported in the NOAA-CSC database at landfall along with information presented in Table C6-2 and Figure 6-1B of ASCE/SEI 7-05 to estimate the corresponding 3-second gust wind speed potential at the PTN site. The staff determined that each of these storms potentially result in a 3-second gust wind speed that exceeds the 3-second gust basic wind speed site characteristic value of 161 mph. FSAR Section 2.3.1.3.3 states that wind gusts associated with Hurricane Andrew reached at least 175 mph.

Please provide additional justification regarding how the proposed 100-year return period 3-second gust wind speed site characteristic value for safety-related structures suitably accounts for the historically reported hurricanes, or revise the site characteristic value to suitably correct for these local conditions.