

PMTurkeyCOLPEm Resource

From: Comar, Manny
Sent: Thursday, March 29, 2012 5:12 PM
To: Butler, Rhonda; Comar, Manny; Galletta, Thomas; Habib, Donald; Hughes, Brian; Joshi, Ravindra; McGovern, Denise; Minarik, Anthony; Nagel, Cheri; Snyder, Amy; Tonacci, Mark; RidsAcrsAcnw_MailCTR Resource; RidsNroDnrLb4 Resource; RidsNroLAKGoldstein Resource; RidsOgcMailCenter Resource; RidsRgn2MailCenter Resource; orthen, Richard; Raymond Burski; Steve Franzone; STEVEN.HAMRICK; TurkeyCOL Resource; William Maher
Cc: Weisman, Robert; Price, Sarah; Quinlan, Kevin; Caverly, Jill
Subject: REQUEST FOR ADDITIONAL INFORMATION LTR. No: 56 RELATED TO SRP 02.03.01 REGIONAL CLIMATOLOGY FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED LICENSE APPLICATION
Attachments: PTN-ltr-56-rai6251.pdf

Attached is the RAI letter No. 56 related to SRP Section 02.03.01 Regional Climatology the Turkey Point Units 6 and 7 Combined License Application.

The Accession number is ML12089A471

If you have any further questions, please feel free to contact me. Thanks

Manny Comar
Senior Project Manager
NRO/DNRL/NWE1
Nuclear Regulatory Commission
301-415-3863
<mailto:manny.comar@nrc.gov>

Hearing Identifier: TurkeyPoint_COL_Public
Email Number: 570

Mail Envelope Properties (377CB97DD54F0F4FAAC7E9FD88BCA6D080735394B8)

Subject: REQUEST FOR ADDITIONAL INFORMATION LTR. No: 56 RELATED TO SRP
02.03.01 REGIONAL CLIMATOLOGY FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED LICENSE
APPLICATION

Sent Date: 3/29/2012 5:12:10 PM

Received Date: 3/29/2012 5:12:16 PM

From: Comar, Manny

Created By: Manny.Comar@nrc.gov

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Tracking Status: None
"William Maher" <William.maher@fpl.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	464	3/29/2012 5:12:16 PM
PTN-ltr-56-rai6251.pdf	98353	

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

TurkeyPointRAIsPEm Resource

From: Comar, Manny
Sent: Thursday, March 29, 2012 2:07 PM
To: TurkeyPointRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LTR. No: 56 RELATED TO SRP 02.03.01
REGIONAL CLIMATOLOGY FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED
LICENSE APPLICATION
Attachments: PTN-RAI-LTR-056.doc

Hearing Identifier: TurkeyPoint_COL_eRAIs
Email Number: 68

Mail Envelope Properties (377CB97DD54F0F4FAAC7E9FD88BCA6D080735393C9)

Subject: REQUEST FOR ADDITIONAL INFORMATION LTR. No: 56 RELATED TO SRP
02.03.01 REGIONAL CLIMATOLOGY FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED LICENSE
APPLICATION

Sent Date: 3/29/2012 2:06:44 PM

Received Date: 3/29/2012 2:06:45 PM

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	8	3/29/2012 2:06:45 PM
PTN-RAI-LTR-056.doc	59898	

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

March 29, 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. 056 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, 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. 6251

Enclosure:
Request for Additional Information

Distribution:

Public	BWeisman	BHughes
RidsNroDnrlNwe1	Baval	MComar
RidsNroLAKGoldstein	DMcGovern	TGalletta
RidsOgcMailCenter	ASnyder	RJoshi
RidsAcrcAcnwMailCenter	SPrice	KQuinlan
RidsRgn2MailCenter	DHabib	GHatchett
AMinarik	MTonacci	

NRO-002

OFFICE	RHMB/BC	LB4/PM	LB4/L-PM
NAME	GHatchett*	MComar*	MComar*
DATE	1/17/12	2/17/12	3/29/12

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information No. 6251

3/29/2012

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 from Hydrologic Engineering Branch (RHEB)

02.03.01-3

10 CFR 52.79(a)(1)(iii) states, in part, that the COL FSAR must include 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 period of time in which the historical data have been accumulated. 10 CFR 100.20(c)(2) states that the meteorological characteristics of the site that are necessary for safety analysis or that may have an impact upon plant design must be identified and characterized and 10 CFR 100.21(d) states, in part, that the meteorological characteristics of the site must be evaluated and site parameters established such that potential threats from such physical characteristics will pose no undue risk to the type of facility proposed to be located at the site.

Nuclear power plants must be designed so that they remain in a safe condition under extreme meteorological events, including those that could result in the most extreme wind events (tornadoes and hurricanes) that could reasonably be predicted to occur at the site. Initially, the U.S. Atomic Energy Commission (predecessor to the NRC) considered tornadoes to be the bounding extreme wind events and issued RG 1.76, "Design-Basis Tornado for Nuclear Power Plants," in April 1974. The design-basis tornado wind speeds were chosen so that the probability that a tornado exceeding the design basis would occur was on the order of 10^{-7} per year per nuclear power plant. In March 2007, the NRC issued Revision 1 of RG 1.76, "Design-Basis Tornado and Tornado Missiles for Nuclear Power Plants." Revision 1 of RG 1.76 relied on the Enhanced Fujita Scale, which was implemented by the National Weather Service in February 2007. The Enhanced Fujita Scale is a revised assessment relating tornado damage to wind speed, which resulted in a decrease in design-basis tornado wind speed criteria in Revision 1 of RG 1.76. Since design-basis tornado wind speeds were decreased as a result of the analysis performed to update RG 1.76, it was no longer clear that the revised tornado design basis wind speeds would bound design-basis hurricane wind speeds in all areas of the United States. This prompted an investigation into extreme wind gusts during hurricanes and their relation to design basis hurricane wind speeds, which resulted in issuing RG 1.221, "Design-Basis Hurricane and Hurricane Missiles for Nuclear Power Plants," in October 2011.

The Turkey Point COLA incorporates by reference Revision 19 of the AP1000 Design Control Document (DCD). Section 3.5.4 of the DCD states, in part, that the COL

applicant must show that missiles caused by external events separate from the tornado have energies less than the tornado missile spectrum energies that the AP1000 is designed to withstand. Further, Section 3.5.4 of the DCD states that if missile energy is greater than the tornado missile spectrum energy evaluated in the DCD, the COL applicant must evaluate and show that it will not compromise the safety of AP1000 safety-related structures and components. In consideration of the guidance provided in RG 1.221, the applicant is requested to describe how the Turkey Point COLA satisfies the Combined License Information requirement of AP1000 DCD Section 3.5.4, or justify why this information is not needed. As appropriate, the applicant is also requested to provide proposed revisions to the Turkey Point FSAR that include the updated missile spectrum site characteristic values, or provide a justification as to why this is not necessary.