

PMTurkeyCOLPEm Resource

From: Comar, Manny
Sent: Wednesday, July 06, 2011 4:54 PM
To: orthen, Richard; Raymond Burski; Steve Franzone; STEVEN.HAMRICK; TurkeyCOL Resource; William Maher; RidsAcrsAcnw_MailCTR Resource; RidsNroDnrINwe1 Resource; RidsNroLAKGoldstein Resource; RidsOgcMailCenter Resource; RidsRgn2MailCenter Resource; Anderson, Brian; Baval, Bruce; Comar, Manny; Cruz, Jeffrey; Goldstein, Kay; Green, Sharon; Habib, Donald; Haggerty, Sharon; Hughes, Brian; Joshi, Ravindra; Minarik, Anthony; Sebrosky, Joseph; Wade, Tony
Cc: Wheeler, Larry; Segala, John; Lee, Samuel
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 028 RELATED TO SRP 09.02.01 STATION SERVICE WATER SYSTEM FOR THE TURKEY POINT PLANT UNITS 6 AND 7
Attachments: PTN-ltr-028-rai5399.pdf

All:

Attached is the RAI letter No. 28 related to SRP Section. 09.02.01 Station Service Water System for the Turkey Point Units 6 and 7 Combined License Application.

The Accession number is ML11187A283 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: 392

Mail Envelope Properties (377CB97DD54F0F4FAAC7E9FD88BCA6D0774B99064F)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 028 RELATED TO
SRP 09.02.01 STATION SERVICE WATER SYSTEM FOR THE TURKEY POINT PLANT UNITS 6
AND 7

Sent Date: 7/6/2011 4:54:29 PM

Received Date: 7/6/2011 4:54:31 PM

From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:

"Wheeler, Larry" <Larry.Wheeler@nrc.gov>

Tracking Status: None

"Segala, John" <John.Segala@nrc.gov>

Tracking Status: None

"Lee, Samuel" <Samuel.Lee@nrc.gov>

Tracking Status: None

"orthen, Richard" <richard.orthen@fpl.com>

Tracking Status: None

"Raymond Burski" <raymond.burski@fpl.com>

Tracking Status: None

"Steve Franzone" <steve.Franzone@fpl.com>

Tracking Status: None

"STEVEN.HAMRICK" <steven.hamrick@fpl.com>

Tracking Status: None

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

Tracking Status: None

"William Maher" <William.maher@fpl.com>

Tracking Status: None

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

Tracking Status: None

"RidsNroDnrlNwe1 Resource" <RidsNroDnrlNwe1.Resource@nrc.gov>

Tracking Status: None

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

Tracking Status: None

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

Tracking Status: None

"RidsRgn2MailCenter Resource" <RidsRgn2MailCenter.Resource@nrc.gov>

Tracking Status: None

"Anderson, Brian" <Brian.Anderson@nrc.gov>

Tracking Status: None

"Bavol, Bruce" <Bruce.Bavol@nrc.gov>

Tracking Status: None

"Comar, Manny" <Manny.Comar@nrc.gov>

Tracking Status: None

"Cruz, Jeffrey" <Jeffrey.Cruz@nrc.gov>

Tracking Status: None

"Goldstein, Kay" <Kay.Goldstein@nrc.gov>

Tracking Status: None

"Green, Sharon" <Sharon.Green@nrc.gov>

Tracking Status: None
"Habib, Donald" <Donald.Habib@nrc.gov>
Tracking Status: None
"Haggerty, Sharon" <Sharon.Haggerty@nrc.gov>
Tracking Status: None
"Hughes, Brian" <Brian.Hughes@nrc.gov>
Tracking Status: None
"Joshi, Ravindra" <Ravindra.Joshi@nrc.gov>
Tracking Status: None
"Minarik, Anthony" <Anthony.Minarik@nrc.gov>
Tracking Status: None
"Sebrosky, Joseph" <Joseph.Sebrosky@nrc.gov>
Tracking Status: None
"Wade, Tony" <Tony.Wade@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	476	7/6/2011 4:54:31 PM
PTN-ltr-028-rai5399.pdf		96564

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

TurkeyPointRAIsPEm Resource

From: Comar, Manny
Sent: Wednesday, July 06, 2011 4:27 PM
To: TurkeyPointRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 028 RELATED TO SRP
09.02.01 STATION SERVICE WATER SYSTEM FOR THE TURKEY POINT PLANT UNITS
6 AND 7
Attachments: PTN-RAI-LTR-028.doc

Hearing Identifier: TurkeyPoint_COL_eRAIs
Email Number: 33

Mail Envelope Properties (377CB97DD54F0F4FAAC7E9FD88BCA6D0774B99062D)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 028 RELATED TO
SRP 09.02.01 STATION SERVICE WATER SYSTEM FOR THE TURKEY POINT PLANT UNITS 6
AND 7

Sent Date: 7/6/2011 4:26:58 PM

Received Date: 7/6/2011 4:26:59 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	7/6/2011 4:26:59 PM
PTN-RAI-LTR-028.doc	54778	

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

July 6, 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. 028 RELATED
TO SRP SECTION 09.02.01 STATION SERVICE WATER SYSTEM 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. 5399

Enclosure:
Request for Additional Information

Distribution:

Public	BWeisman	BHughes
RidsNroDnrlNwe1	JCruz	MComar
RidsNroLAKGoldstein	DMcGovern	TGalletta
RidsOgcMailCenter	BAnderson	RJoshi
RidsAcrcAcnwMailCenter	SGoetz	LWheeler
RidsRgn2MailCenter	JSebrosky	DHabib
AMinarik	JSegala	SLee

NRO-002

OFFICE	SBPA/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	JSegala*	MComar*	PMoulding*	MComar*
DATE	2/25/11	3/29/11	4/18/11	6/16/11

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information No. 5399

7/6/2011

Turkey Point Units 6 and 7
Florida P and L
Docket No. 52-040 and 52-041
SRP Section: 09.02.01 - Station Service Water System
Application Section: 9.2.1 - Service Water System

QUESTIONS from Balance of Plant Branch 1 (SBPA)

09.02.01-1

Explain whether the cooling capability of the service water system (SWS) mechanical draft cooling towers for the PTN units could be adversely affected by interactions that exist between the SWS two mechanical draft cooling towers between units. In addition, explain whether interactions between different cooling towers (i.e., circulating water system (CWS) versus SWS) may adversely affect the cooling capacity of the SWS. Since PTN is utilizing mechanical induced-draft towers for the CWS versus natural draft cooling towers as submitted by other COL applicants, explain whether interactions with the SWS cooling towers could occur due to the difference in height of the discharge plume. For example, consider whether adverse interactions could occur due to localized atmospheric influences caused by siting considerations, the locations of major structures, the locations of the mechanical draft cooling towers, mechanical draft cooling tower fan speed, and wind effects.

In PTN COL FSAR Section 9.2.1.2, the applicant addressed potential impacts due to yard equipment layout and tower operation in an adjacent unit. Provide the detailed analysis with respect to standard plant layout and siting criteria, standard plant design margin, site specific meteorological and siting considerations, interactions with CWS cooling towers, and interactions with adjacent units. In addition, in PTN COL FSAR Section 10.4.5.2.2, the applicant provided information on the site-specific phenomenon of cooling tower "interference" and stated that proper cooling tower placement and orientation can minimize the effect of the phenomenon. Further, the applicant stated that since the PTN SWS and CWS towers are located remotely to each other and the saturated effluent dissipates before it interferes with the intake of the SWS, the CWS towers would not adversely affect the performance of the SWS towers. Identify the detailed information in the PTN COL FSAR supporting these statements, or provide additional information to do so.

In summary, in order to confirm that the design meets GDC 4 criteria with respect to cooling tower interference, provide detailed justification in the FSAR to address potential adverse interactions between the mechanical draft SWS

cooling towers and mechanical draft CWS cooling towers for the two PTN units, as well as adjacent Turkey Point Unit 5 mechanical draft cooling towers.