

TurkeyPointRAIsPEm Resource

From: Misenhimer, David
Sent: Wednesday, October 26, 2011 11:05 AM
To: TurkeyPointRAIsPEm Resource
Subject: RAI LTR NO. 042 RELATED TO SRP 13.03 EMERGENCY PLANNING FOR THE TURKEY POINT COLA
Attachments: RAI 5997 Cover Letter.doc

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Subject: RAI LTR NO. 042 RELATED TO SRP 13.03 EMERGENCY PLANNING FOR THE TURKEY POINT COLA
Sent Date: 10/26/2011 11:04:43 AM
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From: Misenhimer, David

Created By: David.Misenhimer@nrc.gov

Recipients:
"TurkeyPointRAIsPEm Resource" <TurkeyPointRAIsPEm.Resource@nrc.gov>
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Recipients Received:

October 26, 2011

Mr. 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. 042 RELATED TO
SRP SECTION: 13.03 – EMERGENCY PLANNING 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 letter 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.

Mr. Nazar

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If you have any questions or comments concerning this matter, you may contact me at 301-415-6590 or Manny Comar at 301-415-3863.

Sincerely,

David Misenhimer, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-040
52-041

eRAI Tracking No: 5997

Enclosure:
Request for Additional Information

CC: see next page

Mr. Nazar

- 2 -

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Sincerely,

David Misenhimer, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-040
52-041

eRAI Tracking No: 5997

Enclosure:
Request for Additional Information

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OFFICE	RSRLB/BC	NWE1/L-PM
NAME	KWilliams*	MComar*
DATE	08/17/2011	08/17/2011

***Approval captured electronically in the electronic RAI system.
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Request for Additional Information No. 5997 Revision 2

**Turkey Point Units 6 and 7
Florida P and L
Docket No. 52-040 and 52-041
SRP Section: 13.03 - Emergency Planning
Application Section: Part 5 - Emergency Planning**

QUESTIONS for Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

13.03-17

In regard to the habitability of the Turkey Point Plant common Technical Support Center (TSC), please address the following questions:

- a. The combined license (COL) application incorporates by reference the AP1000 design control document (DCD), which includes inspections, tests, analyses, and acceptance criteria (ITAAC) relating to emergency planning on Table 3.1-1 (see Subsection 3.1, "Emergency Response Facilities," of Tier 1 DCD, page 3.1-2). Design Commitment 6 (ITAAC 6) on Table 3.1-1, including its associated acceptance criteria, addresses the habitability of the Control Support Area (CSA). Identify all applicable habitability requirements (radiological and non-radiological) that apply to the TSC located in the Turkey Point Nuclear Training Building, and describe how they will be satisfied. Identify all applicable sections of the COL application and AP1000 DCD. Further, explain the applicability and relevance of ITAAC 6 to the new TSC location. If it is not applicable, describe how comparable TSC habitability requirements will be met. Finally, address any relationship between your answer to this RAI and your answer to RAI 14.03.10-1, in regard to the disposition of Table 3.1-1 ITAAC 6 (i.e., the exemption request (Tier 1 departure) associated with the disposition of Table 3.1-1).

- b. In accordance with Standard Review Plan (SRP) Section 15.0.3 (Acceptance Criterion 3), the staff reviews whether the total calculated radiological consequences in the TSC for the postulated fission product releases fall within the exposure acceptance criteria specified in general design criterion (GDC) 19 of 5 rem TEDE (0.05 Sv) for the duration of the design basis accidents (DBAs). Provide the radiological consequence analyses for the Turkey Point Plant TSC for the postulated DBAs for both the proposed Units 6 and 7 and the existing Units 3 and 4. The DBAs are listed and evaluated in Chapter 15 of the certified AP1000 DCD, Revision 15, and in the AP1000 design certification amendment application (AP1000 DCD, Revision 19) for Units 6 and 7, and are listed and evaluated in Chapter 14 of the Turkey Point Units 3 and 4 UFSAR. The radiological analyses should include, but are not limited to, the following parameters:
1. TSC ventilation air inlet and recirculation flow rates
 2. HEPA filter and charcoal adsorber fission product removal efficiencies
 3. TSC unfiltered air in-leakage rate
 4. Atmospheric dispersion factors (X/Q values) at TSC air intake for releases from any of the Turkey Point nuclear units
 5. TSC occupancy factors
 6. TSC free air volume
 7. Occupant breathing rate
 8. Description of the ventilation design

See also, Southern Nuclear Operating Company's June 26, 2009, response to RAI letter number 035 (ADAMS Accession No. ML091810095), and SCE&G's January 7, 2010 response to RAI letter number 074 (ADAMS Accession No. ML100120290) and March 3, 2010, supplemental response to RAI letter number 074 (ADAMS Accession No. ML100630822).

- c. In COL application Part 10 (License Conditions (Including ITAAC)) Table 3.8-1, ITAAC 5.2.1 acceptance criterion states that the EOF working space size is approximately 4000 square feet consistent with NUREG-0696 (75 square feet/person) and is large enough for required systems, equipment, records, and storage. In contrast, COL application Part 5 (Emergency Plan) states in Section H.2 (Emergency Operations Facility) (page H-5, last bullet) that the EOF is of sufficient size to accommodate approximately 75 personnel, including FPL, state, and county and 12 NRC representatives. At 75 square feet/person, 75 personnel would need 5625 square feet of working space size. Please resolve the inconsistency between ITAAC 5.2.1 (4000 square feet) and Section H.2 of the Emergency Plan (5625 square feet). If appropriate, change ITAAC 5.2.1 to greater than 5625 square feet.