

TurkeyPointRAIsPEm Resource

From: Comar, Manny
Sent: Wednesday, April 27, 2011 3:16 PM
To: TurkeyPointRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LTR NO. 020 RELATED TO SRP SECTION 13.03 EMERGENCY PLANNING FOR THE TURKEY POINT UNITS 6 AND 7 COL APPLICATION
Attachments: PTN-RAI-LTR-020.doc

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Subject: REQUEST FOR ADDITIONAL INFORMATION LTR NO. 020 RELATED TO SRP SECTION 13.03 EMERGENCY PLANNING FOR THE TURKEY POINT UNITS 6 AND 7 COL APPLICATION

Sent Date: 4/27/2011 3:16:00 PM

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From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:

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

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April 27, 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. 020 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 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. 5679

Enclosure:
Request for Additional Information

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NRO-002

OFFICE	LIB/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	KWilliams*	MComar*	PMoulding*	MComar*
DATE	3/31/11	4/12/11	4/12/11	4/25/11

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information No. 5679

4/27/2011

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 from Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

13.03-1

ETE-1: Introductory Materials Related to the ETE Report

Acceptance Criteria: Requirements A and H; Acceptance Criterion 11

Regulatory Basis: Section IV of Appendix E to 10 CFR Part 50, Section I of Appendix 4 to NUREG-0654.

Section 2.3, "Study Assumptions," Item 6 states that there is no expectation that operation of traffic control points will materially shorten evacuation times. However, Appendix I, "Evacuation Sensitivity Studies," shows in the sensitivity study for Special Traffic Treatments, that traffic control reduces evacuation times by as much as 1 hour and 50 minutes. Discuss why an evacuation time estimate was not developed that considers implementation of the traffic control plan for the EPZ.

13.03-2

ETE-2: Demand Estimation

Acceptance Criteria: Requirements A and H; Acceptance Criterion 11

Regulatory Basis: Section IV of Appendix E to 10 CFR Part 50, Section II of Appendix 4 to NUREG-0654.

- A. Figure 3-2, "Permanent Residents by Sector," in the ETE Report shows one person residing within 3 miles in the north sector. The Turkey Point Units 6 and 7 Environmental Report Table 2.5-1, "Current Populations and Projections, by Sector, to 2080," shows a projected 2010 population of 4,293 residents in the 0 to 3 mile sector to the north of the plant. Explain which estimate is correct and revise the ETE Report as needed.
- B. Figure 3-2, "Permanent Residents by Sector," in the ETE Report shows 6,447 people residing in the west sector within 10 miles of the plant. The Turkey Point Units 6 and 7 Environmental Report Table 2.5-1, "Current Populations and Projections, by Sector, to 2080," shows a projected 2010 population of 10,243 residents in the west sector within 10 miles of the plant. Explain which estimate is correct, and revise the ETE Report as needed.
- C. Figure 3-2, "Permanent Residents by Sector," shows a 2009 projected population of 187,374 residents distributed within the EPZ. The Turkey Point Units 6 and 7 Environmental Report Table 2.5-1, "Current Populations and Projections, by

Sector, to 2080,” shows a projected 2010 total 0 to 10 mile population of 130,994 residents. Discuss in the ETE Report the difference between the ETE Report value of 187,374 residents and the Environmental Report value of 130,994 residents.

- D. Discuss in the ETE Report whether the evacuees from Homestead Air Reserve Base were considered part of the transient or permanent resident population. Revise the trip generation distributions, if necessary.
- E. Section 3.2, “Transient Population,” states that there are approximately 400 people and 70 vehicles estimated visiting Biscayne National Park. This corresponds to 5.7 people per vehicle. Explain in the ETE Report why the ratio of persons per vehicle for this national park is significantly higher than 2-3 persons per vehicle, which is normally observed.
- F. Section 3.3, “Employees,” states that the employment for each municipality was divided evenly among the major employers. Discuss in the ETE Report the basis for evenly distributing the total employment within a municipality.
- G. Appendix E, “Special Facility Data,” provides a detailed listing of employees by facility in Table E-2, “Turkey Point EPZ: Major Employers.” Explain in the ETE Report whether the total employees identified in Table E-2 is the total number per shift or the total number of employees.
- H. In Table E-2, “Turkey Point EPZ: Major Employers,” four employers have 2,422 employees. One of these employers is Lowe’s, which is similar in business type to Home Depot, which has 194 employees identified in Table E-2. Explain in the ETE Report why these four employers have the same number of employees and explain why Lowe’s would have a considerably different number of employees than similar business types.
- I. The Homestead-Miami Speedway Track calendar lists numerous smaller events held weekly at the track, and these events attract thousands of visitors. Explain why the speedway is not included in Section 3.2, “Transients,” or revise the ETE to include the speedway transients.
- J. Figure 21, “Turkey Point Warning Sirens,” in the Miami-Dade County, “Florida Comprehensive Emergency Management Plan” shows that there are no sirens in this area where part of the Regatta is held. Describe in the ETE Report the notification and evacuation assumptions used for large boating events such as the Columbus Day Regatta, and explain how the times needed to notify and evacuate this population were addressed in the ETE Report.
- K. The ocean and Keys east of Turkey Point are popular transient locations providing recreational activities such as snorkeling and camping. Discuss in the ETE Report the notification and evacuation assumptions for people who will be evacuating from these recreational areas, and explain how the times needed to notify and evacuate this population were addressed in the ETE Report.
- L. Coconut Palm K-8 Academy, Goulds Elementary, and Mandarin Lakes K-8 Academy are located in plume exposure pathway EPZ. Explain why these three schools

are not included in Table 8-2A, "Miami-Dade County Public Schools," or revise the ETE Report to include these schools.

- M. The Academy at Ocean Reef, is a private school located in Area 10 of the EPZ. Explain why this school is not included in Table 8-2B, "Miami-Dade County Private Charter Schools," or include in the ETE Report, as appropriate.
- N. Section 8.1, "Transit Dependent People – Demand Estimate," describes the process and assumptions for the evacuation of the transit dependent population. Identify in the ETE Report the number of special needs transit dependent people that require assistance to evacuate and the number of specialized vehicles needed to evacuate this population.

13.03-3

ETE-3: Analysis of Evacuation Times

Acceptance Criteria: Requirements A and H; Acceptance Criterion 11

Regulatory Basis: Section IV of Appendix E to 10 CFR Part 50, Section IV of Appendix 4 to NUREG-0654.

- A. Appendix I, "Sensitivity Study," states that several races occur at the racing facility. Table I-2, "NASCAR ETE Sensitivity," identifies the ETE for the largest NASCAR event as 12 hours and 50 minutes if evacuation is ordered at the same time as evacuation for the EPZ population. **Explain why the raceway event in Appendix I, "Sensitivity Study," is not identified as the 'Special' event in Table 2-1, "Evacuation Scenario Definitions," and in Tables 7-1D, "Time to Clear the Indicated Area of 100 Percent of the Affected Population," or include this as the special event scenario.**

13.03-4

ETE-4: Other Requirements

Acceptance Criteria: Requirements A and H; Acceptance Criterion 11

Regulatory Basis: Section IV of Appendix E to 10 CFR Part 50, Section V of Appendix 4 to NUREG-0654.

- A. The Executive Summary, "Traffic Management," states that the comprehensive traffic management plan was reviewed with state and local law enforcement personnel. However, Appendix G, "Traffic Management," states that the traffic management plan should be reviewed by state and local police. Discuss this inconsistency and revise the ETE Report as necessary. Also, Section 2.3, "Study Assumptions," Item 11 states that it is assumed the northbound lane of the Miami-Dade Busway is used as an evacuation lane for the general public. Has state and local law enforcement agreed to establish this busway as an evacuation lane during an emergency? If no agreement has been established, revise the ETE Report accordingly.
- B. Discuss whether the ETE Report has been reviewed by principal State and local organizations involved in emergency response for the site and whether comments received have been addressed.

