



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 17, 2009

Mr. Mano Nazar
Senior Vice President, Nuclear and
Chief Nuclear Officer
Florida Power and Light Company
P.O. Box 14000
Juno Beach, Florida 33408-0420

SUBJECT: TURKEY POINT NUCLEAR PLANT, UNITS 3 AND 4 - REQUEST FOR
ADDITIONAL INFORMATION REGARDING ALTERNATIVE SOURCE TERM
(TAC NOS. ME1624 AND ME1625)

Dear Mr. Nazar:

By letter dated June 25, 2009, Florida Power & Light requested an amendment to the facility operating licenses of Turkey Point Units 3 and 4, to adopt the alternative source term as allowed by Title 10, *Code of Feral Regulations*, Section 50.67.

The Nuclear Regulatory Commission staff has reviewed the Turkey Point Unit 3 and 4 application and has determined that additional information is required to complete the review. This request was discussed with Ms. Olga Hanek of your staff on November 23, 2009, and it was agreed that a final response would be provided by February 12, 2010. If you have any questions, please feel free to contact me at 301-415-5888.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason C. Paige".

Jason C. Paige, Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-250 and 50-251

Enclosure: Request for Additional Information

cc: Distribution via ListServ

REQUEST FOR ADDITIONAL INFORMATION

ALTERNATIVE SOURCE TERM

TURKEY POINT NUCLEAR PLANT UNITS 3 AND 4

DOCKET NUMBERS 50-250 AND 50-251

1. Florida Power & Light Company (FPL) stated on page 33 of 40 of Enclosure 1 to the June 25, 2009, letter that the Control Room Emergency Ventilation System new air duct intakes will be relocated to different parts of the auxiliary building. The relocated intakes and associated duct work will be designed to current licensing design basis seismic and tornado criteria for this plant, as defined in Updated Final Safety Analysis Report Chapter 5, Appendix 5A, "Seismic Classification and Design Basis for Structures, Systems and Equipment."
 - a. Provide a sketch showing the relocated air intakes and ductwork.
 - b. Provide the results of the structural analysis of the relocated intake ducts and associated duct work, showing that the maximum stresses meet the design basis acceptance criteria under safe shut-down earthquake and tornado loading.
 - c. Provide the results of the evaluation of the intake ducts and associated duct work for external missile protection.
2. FPL stated on p. 14 of 20 of Attachment 2 to the Enclosure that it intends to install 10 stainless steel wire mesh baskets (two large and eight small) containing sodium tetraborate decahydrate (NaTB) in the containment basement, as a means of controlling the containment sump pH. These baskets contain a combined mass of 11,061 lbm of NaTB. Provide a detailed description of the structural design and analysis of these baskets, including the location, geometry, anchoring, the design loads and load combinations, design acceptance criteria and margins under normal and accident conditions.
3. FPL stated on p. 30 of 40 of Enclosure 1 that it will replace the aluminum fins on the normal containment coolers with copper fins to generate less chemical debris.
 - a. Provide a description and results of the evaluation of potential structural effects on the coolers as a result of the fin replacement.

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/RA/

Jason C. Paige, Project Manager
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OFFICE	LPL2-2/PM	LPL2-2/LA	EMCB/BC	LPL2-2/BC
NAME	JPaige	BClayton	MKhanna memo dated	TBoyce
DATE	12/17/09	12/17/09	10/28/09	12/17/09

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