



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

September 13, 2012

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

SUBJECT: TURKEY POINT NUCLEAR GENERATING UNIT NO. 4 – LICENSE
CONDITION 3.K.1, "EXTENDED POWER UPRATE MODIFICATIONS,"
REGARDING SPENT FUEL POOL SUPPLEMENTAL HEAT EXCHANGERS
(TAC NO. ME9246)

Dear Mr. Nazar:

On June 15, 2012, the U. S. Nuclear Regulatory Commission (NRC) issued Extended Power Uprate (EPU) Amendments 249 and 245 for Renewed Facility Operating Licenses DPR-31 and DPR-41 for Turkey Point Nuclear Generating (TPN) Unit Nos. 3 and 4, respectively. The amendments included license conditions 3.J.1 for Unit 3 and 3.K.1 for Unit 4, "Extended Power Uprate Modifications." These license conditions state:

Prior to completion of the Cycle 26 [27] refueling outage for Unit 3 [4], the licensee shall provide confirmation to the NRC staff that the design and structural integrity evaluations associated with the modifications related to the spent fuel pool supplemental heat exchangers are complete, and that the results demonstrate compliance with appropriate UFSAR and code requirements. As part of the confirmation, the licensee shall provide a summary of the structural qualification results of the piping, pipe supports, supplemental heat exchanger supports, and the inter-tie connection with the existing heat exchanger for the appropriate load combinations along with the margins.

By letter dated August 10, 2012, Florida Power & Light (the licensee) provided confirmation that the design and structural integrity evaluations associated with the modifications related to the spent fuel pool supplemental heat exchange for TPN, Unit No. 4 have been completed. In accordance with license condition 3.K.1, the licensee submitted a summary of the structural qualification results of the piping, the pipe supports, major valves, and supplemental heat exchanger inlet and outlet nozzles and supports for appropriate load combinations along with the associated design margins. Due to the extent of the piping that is being added or modified as a result of the addition (inter-tie) of the supplemental heat exchanger, the entire main process piping and associated supports have been re-analyzed by the licensee to ensure compliance with the appropriate Updated Final Safety Analysis Report (UFSAR) and code requirements.

M. Nazar

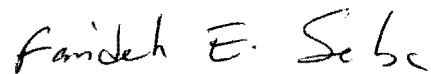
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The NRC staff reviewed the summary information and finds it acceptable because the piping stresses, pipe supports, heat exchanger nozzle loads, supplemental spent fuel pool heat exchanger supports, and valve accelerations meet the respective acceptance limits. The licensee has satisfactorily demonstrated that the design and structural integrity evaluations associated with the modifications related to the spent fuel pool supplemental heat exchangers are complete and that the results demonstrate compliance with the appropriate UFSAR and code requirements.

This concludes the NRC staff reviews associated with License Condition 3.K.1 for TPN Unit No. 4. Therefore, TAC No. ME9246 will be closed.

If you have any questions, please contact me at 301-415-1447 or via e-mail at Farideh.Saba@nrc.gov.

Sincerely,

A handwritten signature in black ink that reads "Farideh E. Saba". The signature is written in a cursive style with a large, stylized 'S' at the end.

Farideh E. Saba, Senior Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-251

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M. Nazar

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The NRC staff reviewed the summary information and finds it acceptable because the piping stresses, pipe supports, heat exchanger nozzle loads, supplemental spent fuel pool heat exchanger supports, and valve accelerations meet the respective acceptance limits. The licensee has satisfactorily demonstrated that the design and structural integrity evaluations associated with the modifications related to the spent fuel pool supplemental heat exchangers are complete and that the results demonstrate compliance with the appropriate UFSAR and code requirements.

This concludes the NRC staff reviews associated with License Condition 3.K.1 for TPN Unit No. 4. Therefore, TAC No. ME9246 will be closed.

If you have any questions, please contact me at 301-415-1447 or via e-mail at Farideh.Saba@nrc.gov.

Sincerely,

/RA/

Farideh E. Saba, Senior Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-251

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