

NRR-PMDAPEm Resource

From: Klett, Audrey
Sent: Friday, October 16, 2015 11:18 AM
To: 'Mitch.Guth@fpl.com'
Cc: 'Hanek, Olga' (Olga.Hanek@fpl.com); 'Mihalakea, Stavroula' (Stavroula.Mihalakea@fpl.com); Czaya, Paul (Paul.Czaya@fpl.com)
Subject: Request for Additional Information re. Turkey Point Unit 3 and 4 License Amendment Request No. 237 (TACs MF6148 and MF6149)

Hi Mitch,

By application dated April 16, 2015 (Agencywide Documents Access and Management System Accession No. ML15119A222), Florida Power & Light Company (the licensee) submitted License Amendment Request No. 237 for Turkey Point Nuclear Generating Unit Nos. 3 and 4. The U.S. Nuclear Regulatory Commission staff from the Instrumentation and Controls Branch (EICB) and the Reactor Systems Branch (SRXB) in the Office of Nuclear Reactor Regulation reviewed the application and identified areas where it needs additional information to support its review. The Request for Additional Information (RAI) is provided below. As discussed with Ms. Olga Hanek of your staff on October 16, 2015, the NRC is requesting a response to the RAI by December 1, 2015.

EICB RAI-1

In its application dated April 16, 2015, the licensee indicated that one of the two errors identified in the calculation for measurement of the boric acid volume uncertainty is the total loop uncertainty (TLU). Please provide a summary of how the licensee calculated the TLU and how the TLU error was identified.

EICB RAI-2

Please confirm whether the TLU is calculated for each tank. Given that there are three tanks that are connected together, how is the total uncertainty for all three tanks considered?

EICB RAI-3

Please confirm that all three tanks are identical (e.g., in internal diameter and height of the tanks) and the method used for measuring the tank level.

SRXB RAI-1

As discussed in the application, the nominal boric acid tank (BAT) inventory volume was corrected for both the one- and two-unit operation. These new nominal values were essentially calculated by adding the corrected uncertainty to the old minimum volume (i.e., old nominal values minus incorrect uncertainties). Thus, both the new nominal minus uncertainty BAT volume and the old nominal minus uncertainty BAT volume are the same.

Please confirm that the following evaluations assumed the nominal minus uncertainty volume of the BAT:

- Calculations related to the volume necessary to increase the reactor coolant system boron concentration during the early phase of cooldown such that subsequent use of the refueling water storage tank for contraction will maintain the required shutdown margin throughout the remainder of the cooldown.
- Calculations in determining if the BAT has sufficient boric acid solution to achieve cold shutdown if the most reactive rod cluster control assembly is not inserted.

If it cannot be confirmed that the nominal minus uncertainty BAT volume was assumed in these evaluations, please demonstrate that these evaluations are still valid.

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