

NRR-PMDAPEm Resource

From: Klett, Audrey
Sent: Wednesday, January 22, 2014 12:22 PM
To: Tomonto, Bob (Bob.Tomonto@fpl.com); 'Hanek, Olga' (Olga.Hanek@fpl.com); 'Mihalakea, Stavroula' (Stavroula.Mihalakea@fpl.com)
Subject: Request for Additional Information - Turkey Point 3 & 4 RVI Inspection (TACs MF1485/86)

Hi Bob, Olga, Stavy,

BACKGROUND

By letter to the U.S. Nuclear Regulatory Commission (NRC) dated December 14, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12363A103), Florida Power & Light Company (FPL, the licensee) submitted its License Renewal Reactor Vessel Internals (RVIs) Commitment Implementation Report and Inspection Plan that credits the implementation of Materials Reliability Program (MRP)-227-A (ADAMS Accession Nos. ML12017A194, ML12017A196, ML12017A197, ML12017A191, ML12017A192, ML12017A195, and ML12017A199) at Turkey Point Nuclear Generating Unit Nos. 3 and 4 (i.e., Turkey Point 3 and 4) for NRC staff review.

The NRC staff reviewed Revision 0 of MRP-227 and issued a final safety evaluation on December 16, 2011, to incorporate technical changes required to ensure the final approved version of MRP-227 (i.e. MRP-227-A) included all NRC required changes. MRP-227-A was issued in December 2011.

The NRC staff reviewed the information provided by the licensee in its submittal dated December 14, 2002, and needs additional information to complete the review. The NRC staff's request for additional information (RAI) is described below. The new RAI below is numbered sequentially from the RAIs that the NRC previously sent by e-mail dated September 27, 2013 (ADAMS Accession No. ML13274A144). As discussed during a teleconference with Ms. Stavy Mihalakea of the licensee's staff on January 16, 2014, the NRC staff is requesting a response to the new RAI below (i.e., RAI-7) and RAI-5.b from the e-mail dated September 27, 2013, by January 31, 2014. The new due date for the response to RAI-5.a will be determined at a later time.

REQUEST FOR ADDITIONAL INFORMATION

RAI-7

As discussed in Section 3.3.7 of Revision 1 to the Safety Evaluation for MRP-227, A/LAI 7 requires that the licensees of Westinghouse reactors develop plant-specific analyses to be applied for their facilities to demonstrate that lower support column cast austenitic stainless steel (CASS) bodies will maintain their function during the extended period of operation. MRP-227-A Table 3-3 (Final disposition of Westinghouse internals) classifies CASS lower support columns as Expansion Components based on susceptibility to irradiation embrittlement (IE) and irradiation assisted stress corrosion cracking (IASCC). In its letter dated December 14, 2012, the licensee stated that the lower support columns were not susceptible to thermal embrittlement (TE) based on calculated ferrite being well below the 20% threshold as described in NRC letter, "License Renewal Issue No. 98-0030, 'Thermal Aging Embrittlement of Cast Stainless Steel Components'" (ADAMS Accession No. ML003717179). In its letter dated December 14, 2012, the licensee provided the range of ferrite contents (4.29% to 14.83%) for the Turkey Point, Unit 3 and 4 lower support column bodies. To support its review, the staff requires the following additional information:

- For the 136 CASS lower support columns discussed in Reference 1, provide the ferrite content for each lower support column.
- Provide the casting method for the column (static or centrifugal), if known.

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