

NRR-PMDAPem Resource

From: Chawla, Mahesh
Sent: Thursday, January 21, 2016 2:18 PM
To: laura.swenzinski@nexteraenergy.com; Davis, J.Michael (J.Michael.Davis@nexteraenergy.com); Cross, William (WILLIAM.CROSS@fpl.com)
Cc: Fairbanks, Carolyn; Hardgrove, Matthew; Oesterle, Eric; McHale, John; Wrona, David; Norton, Charles; Steffes, Jakob; Stoedter, Karla; Phillips, Charles
Subject: Request for Additional Information - LAR to revise and relocate pressure and temperature limit curves to a pressure and temperature limits report - MF6617

By letter dated July 30, 2015 (Agencywide Document Access and Management System (ADAMS) Accession Numbers ML15253A310, ML15253A311) as supplemented by letter dated December 18, 2015 (ADAMS Accession NO. ML15357A051), NextEra Energy Duane Arnold, LLC (NextEra Energy Duane Arnold), the licensee for Duane Arnold Energy Center (DAEC), submitted a license amendment request to revise the DAEC Technical Specifications (TS). The proposed revisions would modify TS 1.1, "Definitions," TS 3.4.9, "RCS Pressure and Temperature (P/T) Limits," and TS 5.6, "Reporting Requirements," by replacing the exiting reactor vessel heatup and cooldown rate limits and the pressure and temperature (P/T) limit curves with references to a Pressure and Temperature Limits Report (PTLR).

Based on the review of the amendment request, the NRC Staff has determined that additional information is required to complete the review of this task.

REQUEST FOR ADDITIONAL INFORMATION

Reactor Systems Branch (SRXB)

SRXB – RAI 1

Section 3.2, Adjusted Reference Temperature (ART) and Fluence, states that the fluence used in the development of the ART values were calculated using the NRC approved RAMA methodology found in References 7.7 and 7.8. DAEC further references in Reference 7.10 an amendment dated August 25, 2003, "Duane Arnold Energy Center – Issuance of Amendment Regarding Pressure and Temperature Limit Curves," (ML032310536) using the GE neutron fluence method in the GE Licensing Topical Report NEDO-32983P-A. The proposed PTLR (ML15253A311) references using the RAMA methodology in TransWare Report No. DAE-FLM-001-R-004, Revision 0, "Duane Arnold Energy Center Fluence Assessment Report – End of Cycle 24," dated April 3, 2015. Additionally, the PTLR also references the same SE using the GE method as the application discussed earlier. Lastly, in reviewing of neutron fluence methodologies approved for DAEC, the RAMA method is approved for Duane Arnold in its license renewal application for operation out to 54 effective full power years (EFPY). It is unclear to the NRC staff how the GE and RAMA fluence methodologies are being applied for the proposed PTLR. The NRC staff requests that the licensee provide an explanation and any information regarding how the RAMA fluence methodology is being applied to DAEC for the proposed PTLR.

SRXB – RAI 2

When comparing the proposed PTLR P/T curves for 32 EFPY to the current P/T curves in TS for 32 EFPY, the NRC staff noticed there is a difference in the P/T curves. The NRC staff requests that the licensee provide an explanation regarding the differences seen between the current TS P/T curves for 32 EFPY and the proposed PTLR P/T curves for 32 EFPY.

The U.S. Nuclear Regulatory Commission (NRC) staff reviewed the NextEra Energy Duane Arnold, LLC (NextEra Energy Duane Arnold) license amendment request (LAR) dated July 30, 2015, (Agencywide

Documents Access and Management System (ADAMS) Accession No. ML15253A311(NP) and ML15253A311(P)) and has determined that additional information is necessary. Please provide responses that address the following requests for additional information (RAI):

Vessels and Internals Integrity Branch (EVIB)

RAI 1

Provide the following reference from Enclosure 5 of the July 30, 2015 submittal to provide supporting information regarding the data and methodology necessary for determining best estimate chemistries and the adjustment of material chemistry factors:

Enclosure 5, Reference 13: Duane Arnold specific sections of "BWRVIP-135, Revision 3: BWR Vessel and Internals Project, Integrated Surveillance Program (ISP) Data Source Book and Plant Evaluations," Palo Alto, CA, 2014, and any related follow-on documents containing data specific to Duane Arnold.

Please provide your response on the docket within 30 days of the receipt of this email. Please arrange a teleconference with the NRC staff if any further clarification is needed. Thanks

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