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2CAN071603

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ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT: Reactor Vessel Internals Aging Management Program Plan
Arkansas Nuclear One – Unit 2
Docket No. 50-368
License No. NPF-6

- REFERENCES:
1. Entergy letter to NRC, "License Renewal Application," dated October 14, 2003 (2CAN100302) (ML032890492)
 2. Entergy letter to NRC, "License Renewal Application Clarifications," dated September 10, 2004 (2CAN090402) (ML042660110)
 3. NRC letter to Entergy, "Regulatory Issue Summary 2011-07, License Renewal Submittal Information for Pressurized Water Reactor Internal Aging Management," dated July 21, 2011 (0CNA071104) (ML111990086)
 4. Materials Reliability Program: Pressurizer Water Reactor Internals Inspection and Evaluation Guidelines (MRP-227-A) December 2011
 5. NRC letter from Robert A. Nelson (NRC) to Neil Wilmshurst (EPRI), "Revision 1 to the Final Safety Evaluation of EPRI Report, Materials Reliability Program Report 1016596 (MRP-227), Revision 0, 'Pressurized Water Reactor (PWR) Internals Inspection and Evaluation Guidelines' (TAC No. ME0680) (ML11308A770)

Dear Sir or Madam:

By Reference 1, Entergy Operations, Inc. (Entergy) submitted a License Renewal Application (LRA) for Arkansas Nuclear One, Unit 2 (ANO-2). During the review of Reference 1, the NRC Staff issued a request for additional information (RAI). The Staff requested clarifications to some previously docketed RAI responses for the LRA. Reference 2 provided the requested clarifications for one set of the RAI responses.

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In Reference 2, Entergy made two commitments related to the reactor vessel internals. These commitments were to submit a description of the Cast Austenitic Stainless Steel program and the Reactor Vessel Internals Program to the NRC for review and approval. The Aging Management Program Plan for the ANO-2 Reactor Vessel Internals is attached, which addresses both of these commitments.

ANO-2 is a Category 2 plant according to Reference 3.

The plan identifies the internals components to be included for aging management review and identifies the augmented inspection plan for the ANO-2 reactor vessel internals. This plan implements the Electric Power Research Institute's Materials Reliability Program: Pressurized Water Reactor Internals Inspection and Evaluation Guidelines (MRP-227-A) (Reference 4). This program was developed so that the aging effects of the reactor vessel internal components are adequately managed and provide reasonable assurance that the internals components continue to perform their intended function throughout the period of extended operation (PEO).

Reference 5 provides Revision 1 of the Final Safety Evaluation of MRP-227-A. As part of that evaluation, a number of action items and conditions were specified. Documented in Section 5 of the attached program plan is how ANO-2 conforms to those action items and conditions.

The commitments listed in Reference 2 stated the submittal date would be at least 24 months prior to entering the PEO. ANO-2 enters the PEO on July 17, 2018.

This letter contains no new regulatory commitments.

If you have any questions or require additional information, please contact me.

Sincerely,

ORIGINAL SIGNED BY STEPHENIE L. PYLE

SLP/rwc

Attachment: PWR Internals Aging Management Program Plan for Arkansas Nuclear One, Unit 2

cc: Mr. Kriss Kennedy
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