



Entergy Operations, Inc.
1448 S.R. 333
Russellville, AR 72802
Tel 479-858-4704

Stephenie L. Pyle
Manager, Licensing
Arkansas Nuclear One

2CAN041303

April 24, 2013

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

SUBJECT: Additional Reactor Vessel Closure Head Weld
Request for Alternative ANO2-ISI-004
Proposed Alternative to Extend the Third 10-Year Inservice
Inspection Interval for Reactor Vessel Weld Examinations
Arkansas Nuclear One, Unit 2
Docket No. 50-368
License No. NPF-6

- REFERENCES:
1. Entergy letter to NRC, "Request for Alternative ANO2-ISI-004 Proposed Alternative to Extend the Third 10-Year Inservice Inspection Interval for Reactor Vessel Weld Examinations," dated October 29, 2009 (2CAN100902) (ML093030136)
 2. Letter from NRC to Mr. Gordon Bischoff, Manager, Owner's Group Program Management Office, Final Safety Evaluation of Pressurized Water Reactor Owners Group (PWROG) Topical Report (TR) WCAP-16168-NP, Revision 2, Risk-Informed Extension of the Reactor Vessel In-Service Inspection Interval (TAC No. MC9768), dated May 8, 2008 (ML081060051)
 3. NRC letter to Entergy, "Arkansas Nuclear One, Unit 2 – Request for Alternative ANO2-ISI-004, To Extend the Third 10-Year Inservice Inspection Interval for Reactor Vessel Weld Examinations (TAC No. ME2508)," dated September 21, 2010 (2CNA091002) (ML102450654)
 4. NRC letter to Entergy, "Waterford Steam Electric Station, Unit 3 – Request for Alternative WF3-ISI-006 for the Second 10-Year Inservice Inspection Interval (TAC No. MD9671)," dated June 12, 2009 (ILN09-0058) (ML091210375)

Dear Sir or Madam:

Entergy Operations, Inc. (Entergy) requested NRC's approval of an alternative to the requirements of the American Society of Mechanical Engineers Boiler and Pressure Code, Section XI, paragraph IWB-2412, Inspection Program B, for Arkansas Nuclear One, Unit 2 (ANO-2) in Reference 1. In particular the requirement that volumetric examination of essentially 100% of the reactor vessel pressure retaining Examination Category B-A and B-D welds be performed once each ten-year inservice inspection (ISI) interval. The alternative was to extend the examination frequency to once every 20 years. The request was based upon the methodology outlined in Reference 2.

In Reference 3, the NRC concluded that the Request for Alternative ANO2-ISI-004 provided an acceptable level of quality and safety and the alternative was authorized pursuant to 10 CFR 50.55a(a)(3)(i).

While reviewing the ANO-2 ISI program, it was discovered that the change to the program to include the approved request for alternative included an additional weld that was not specifically requested or granted. The affected weld number is 02-001, which is the reactor pressure vessel closure head to flange weld, was inadvertently omitted from the first paragraph of Reference 1 Request for Alternative ANO2-ISI-004.

This weld is a reactor vessel pressure boundary B-A weld as discussed in Reference 1, but its item number (B1.40) was not specifically listed in Reference 1 or 3. As a result of the change to the ISI program this weld was not examined during the third ISI interval. Entergy requests the approval of this weld as part of Request for Alternative ANO2-ISI-004.

This weld was included in the analysis performed to support the Reference 1 request. Reference 4 is the NRC's approval of a similar request for Waterford. The Waterford request included the subject weld (B1.40).

This weld was last examined, one third per outage, during the Fall of 1992, Spring of 1994 and Spring of 1997 outages. No unsatisfactory indications were identified during these inspections.

This submittal contains no regulatory commitments.

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

Sincerely,

Original signed by Stephenie L. Pyle

SLP/rwc

cc: Mr. Arthur T. Howell
Regional Administrator
U. S. Nuclear Regulatory Commission, Region IV
1600 East Lamar Boulevard
Arlington, TX 76011-4511

NRC Senior Resident Inspector
Arkansas Nuclear One
P. O. Box 310
London, AR 72847

U. S. Nuclear Regulatory Commission
Attn: Mr. Kaly Kalyanam
MS O-8B1
One White Flint North
11555 Rockville Pike
Rockville, MD 20852