



Entergy Operations, Inc.
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Stephenie L. Pyle
Manager, Licensing
Arkansas Nuclear One

1CAN011201

January 31, 2012

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

Subject: Inservice Inspection Summary Report for
The Twenty-Third Refueling Outage
Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51

Dear Sir or Madam:

Article IWA-6000 of Section XI of the 2001 Edition with the 2003 Addenda of the American Society of Mechanical Engineers (ASME) Code requires an inservice inspection report be submitted to regulatory and enforcement authorities having jurisdiction at the plant site. The summary report is to contain the completed Form NIS-1, "Owner's Report for Inservice Inspection," and Form NIS-2, "Owner's Report for Repair or Replacement."

Code Case N-532 allows Entergy Operations, Inc. (Entergy) to prepare an Owner's Activity Report Form OAR-1 in place of the code required NIS-1 and NIS-2 forms. The latest revision of this code case, N-532-4, is listed in Regulatory Guide 1.147, "Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1," Revision 16, Table 1, "Acceptable Section XI Code Cases;" therefore, prior NRC approval to implement this code case is not required.

This report is to be prepared at the completion of a refueling outage and submitted within 90 calendar days of the completion of the refueling outage. In this case the report is for the twenty-third refueling outage (1R23) for Arkansas Nuclear One, Unit 1 (ANO-1). This outage was completed on November 22, 2011. This outage occurred during the fourth 10-year Inservice Inspection interval, second inspection period.

Attached is the completed Form OAR-1 for ANO-1 for your information. Included with the form are tables listing the "Items with Flaws or Relevant Conditions that Required Evaluation for Continued Service" and "Abstract of Repair/Replacement Activities Required for Continued Service" in accordance with Code Case N-532-4. The results that are contained in this completed form are for 1R23.

This letter contains no new commitments.

By means of this submittal, the reporting requirements of IWA-6000 are fulfilled for 1R23.

Should you have any questions, please contact me.

Sincerely,

Original signed by Stephenie L. Pyle

SLP/rwc

Attachment: Form OAR-1, Owner's Activity Report

cc: Mr. Elmo E. Collins
Regional Administrator
U. S. Nuclear Regulatory Commission, Region IV
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Arlington, TX 76011-4511

NRC Senior Resident Inspector
Arkansas Nuclear One
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London, AR 72847

U. S. Nuclear Regulatory Commission
Attn: Mr. Kaly Kalyanam
MS O-8 B1
One White Flint North
11555 Rockville Pike
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Mr. Bernard R. Bevill
Arkansas Department of Health
Radiation Control Section
4815 West Markham Street
Slot #30
Little Rock, AR 72205

ATTACHMENT TO
1CAN011201
Form OAR-1
Owner's Activity Report

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-1421

Plant Arkansas Nuclear One / 1448 S.R. 333, Russellville, AR. 72802

Unit No. 1 Commercial service date December 19, 1974 Refueling outage no. 1R23
(If applicable)

Current inspection interval Fourth (4th) Inspection Interval
(1st, 2nd, 3rd, 4th, other)

Current inspection period Second (2nd) Inspection Period
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plan 2001 Edition with 2003 Addenda

Date and revision of inspection plan March 16, 2010 / Revision 2 (CEP-ISI-101)
November 17, 2010 / Revision 0 (SEP-ISI-101)

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan Same

Code Cases used: N-532-4, N-661, N-513-3
(if applicable)

CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations, tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of 1R23 conform to the requirements of Section XI.
(refueling outage number)

Signed Original signed by Richard E. Holman, ASME Section XI Repair / Replacement Engineer Date 01/11/2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arkansas and employed by HSBCT of Hartford, Connecticut have inspected the items described in this Owner's Activity Report, and state that to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Original signed by Carl Thompson Commissions ARK-1054
Inspector's Signature National Board, State, Province, and Endorsements
Date 01/12/2012

TABLE 1**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE**

Examination Category and Item Number	Item Description	Evaluation Description
D-B D2.10	HBD-2-18" Service Water Piping	Evaluate continued service with MIC through wall leak in pipe Condition Report (CR)-ANO-1-2010-2391
F-A F1.20C	Support MFW-H1 Main Feedwater Piping	Evaluate Operability / Functionality CR-ANO-1-2011-1728

TABLE 2

ABSTRACT OF REPAIR / REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair / Replacement Plan Number & Work Order (WO) Number
T3	Pipe	Perform Service Water (SW) leak repair in accordance with ASME Section XI Code Case N-661 on SW Piping HBD-46-10" due to MIC pinhole leak.	8-Jan-2011	Plan # 11-2001, WO 00261051 CR-ANO-1-2011-0010
T3	Pipe	Perform SW leak repair in accordance with Relief Request ANO1-R&R-016 on SW Piping HBD-45-10" due to MIC pinhole leak.	2-May-2011	Plan # 11-2040, WO 00243106 CR-ANO-1-2010-2622
2	Pipe / Valve	Replaced valve BS-4B and HCD-8-8" piping elbow.	18-Nov-2011	Plan # 11-2011, WO 00233133 CR-ANO-1-2010-00859
T3	Pipe	Replace SW Piping associated with previous through wall weld repair on HBD-45-10" piping (see above).	5-Nov-2011	Plan # 11-2025, WO 00269976 CR-ANO-1-2010-2622
T3	Pipe	Replace SW Piping associated with previous through wall weld repair on HBD-46-10" piping (see above).	30-Oct-2011	Plan # 00258165-05, WO 00258165 CR-ANO-1-2010-3358 and CR-ANO-1-2011-0010
T3	Pipe	Replace SW Piping due to MIC through wall leakage on HBD-2-18" piping.	31-Oct-2011	Plan # 00240369-14, WO 00240369 CR-ANO-1-2010-2391
1	Steam Generator	E-24B tube plugging	31-Oct-2011	Plan # 52272129-09, WO 52272129

TABLE 2 (continued)

ABSTRACT OF REPAIR / REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair / Replacement Plan Number & Work Order (WO) Number
1	Steam Generator	E-24A tube plugging	30-Oct-2011	Plan # 52272165-10, WO 52272165