



Entergy Operations, Inc.
1448 S.R. 333
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Stephenie L. Pyle
Acting Manager, Licensing
Arkansas Nuclear One

2CAN051102

May 25, 2011

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

SUBJECT: Inservice Inspection Summary Report for
The Twenty-First Refueling Outage (2R21)
Arkansas Nuclear One, Unit 2
Docket No. 50-368
License No. NPF-6

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 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-first refueling outage (2R21) for Arkansas Nuclear One, Unit 2 (ANO-2). This outage was completed on March 26, 2011.

Attached is the completed Form OAR-1 for ANO-2 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 2R21.

This letter contains no new commitments.

By means of this submittal, the reporting requirements of IWA-6000 are fulfilled for 2R21.

If you have any questions or require additional information, 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
612 E. Lamar Blvd., Suite 400
Arlington, TX 76011-4125

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-8 B1
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

Mr. Bernard R. Bevill
Arkansas Department of Health
Radiation Control Section
4815 West Markham Street
Slot #30
Little Rock, AR 72205

ATTACHMENT TO

2CAN051102

Form OAR-1

Owner's Activity Report

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-2411

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

Unit No. 2 Commercial service date March 26, 1980 Refueling outage no. 2R21
(If applicable)

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

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

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

Date and revision of inspection plan October 13, 2009 Revision 305 (CEP-ISI-004) and January 24, 2011, Revision 0 (SEP-ISI-105)

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-661-1
(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 2R21 conform to the requirements of Section XI.
(refueling outage number)

Signed Original signed by Richard E. Holman, Repair / Replacement Engineer Date 05/09/2011
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 NB-9985, ARK-1054 "A" "B" "N" "I" "NS"
Inspector's Signature National Board, State, Province, and Endorsements

Date 05-09-2011

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	2HBC-51-18" Service Water Piping	Minimum Wall Violation (CR-ANO-2-2011-00240)
B-G-1 B6.190	2P-32A Flange Surface	Surface Indications (CR-ANO-2-2011-00417 and CR-ANO-2-2011-00920)

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 Number
3	Repair	2SW-26B Weld Repair	11-Jan-2010	Plan #09-2113, WO 00214905
3	Replacement	2VE-1B End Bell Replacement	24-Feb-2010	Plan #10-2008, WO 51670455
3	Repair	2HCC-298-4" Through Wall Welded Repair	5-Mar-2011	Plan #11-2003, WO #261455
3	Repair	2HCC-64-4" Through Wall Welded Repair	5-Mar-2011	Plan #11-2004, WO #261218
3	Repair	2HCC-76-4" Through Wall Welded Repair	5-Mar-2011	Plan #11-2005, WO #261219
3	Repair	2HBC-68-12" Weld Overlay	15-Mar-2011	Plan #11-2024, WO #223620