



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

2CAN081406

August 21, 2014

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

Subject: Inservice Inspection Summary Report for the
Twenty-Third Refueling Outage (2R23)
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 summary 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. 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 (2R23) for Arkansas Nuclear One, Unit 2 (ANO-2). This outage was completed on June 12, 2014.

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 2R23.

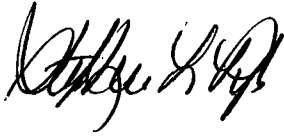
This letter contains no new regulatory commitments.

A047
NRR

By means of this submittal, the reporting requirements of IWA-6000 are fulfilled for 2R23.

Should you have any questions regarding this submittal, please contact me.

Sincerely,



SLP/rwc

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

cc: Mr. Marc L. Dapas
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: Ms. Andrea E. George
MS O-8B1
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

Attachment to
2CAN081406
Form OAR-1
Owner's Activity Report

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-2421

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

Unit No. 2 Commercial service date March 28, 1980 Refueling outage no. 2R23
(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 July 18, 2013 / Revision 0 (SEP-ISLANO2-105) and February 14, 2014 / Revision 1 (SEP-ISLANO2-105)

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

Code Cases used: N-532-4
(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 2R23 conform to the requirements of Section XI.
(refueling outage number)

Signed Jamie Goebel / ASME Section XI Repair/Replacement Engineer Date 8/13/2014
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 HSB Global Standards 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.

Carl W. Thompson Commissions ARK-1054
Inspector's Signature National Board, State, Province, and Endorsements
Date 08-18-2014

TABLE 1

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

Examination Category and Item Number	Item Description	Evaluation Description
<p>R-A R1.11, and R1.20 Code Case N-770-1 B</p>	<p>Measured pipe wall thickness at some dissimilar metal circumferential butt welds in the reactor coolant system were measured to be less than the minimum allowable thickness values that had been provided by Design Engineering. The subject welds were located at charging branch lines on the "B" and "C" loops, at the Pressurizer spray line branch line off the "B" cold leg, and the Safety Injection branch lines on the "A" and "B" cold legs. While this condition is not a "flaw", it is considered to be a relevant condition, and is therefore being included in this table.</p>	<p>Reference CR-ANO-2-2014-01813. An evaluation was completed to determine the minimum required wall thickness for primary loads at these locations. All locations were concluded to be acceptable for primary loads, establishing near term structural integrity. Additional evaluation work is continuing to include secondary stresses and fatigue usage.</p>
<p>Notes: Unit 2, 4th Interval, 2nd Period</p>		

TABLE 2

ABSTRACT OF REPAIR / REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair / Replacement (R&R) Plan Number and Work Order (WO) Number
3	Pipe weld	Performed weld repair to correct a Service Water leak in the upstream weld on valve 2SW-25B.	5-Jan-2014	R&R plan and WO # 00365254-02 CR-ANO-2-2013-01913
2	Pipe weld	Cut out and replace piping to correct Main Steam leak on socket weld number SW-11 on line class 2ECB-5-3/4" which is the upstream weld for valve 2MS-1030A.	17-Mar-2014	R&R plan and WO # 00370508-07 CR-ANO-2-2013-02483
2	Heat Exchanger tube	Installed welded tube plugs to correct tube leaks on 2E-35A Shutdown Cooling heat exchanger.	26-May-2014	R&R plan and WO # 00370501-10 CR-ANO-2014-01243
1	Steam Generator tube	Installed expanded tube plugs in Steam Generator 2E-24A as a preventative measure (no leak) due to indications of tube wear.	31-May-2014	R&R plan and WO # 00366665-03
1	Steam Generator tube	Installed expanded tube plugs in Steam Generator 2E-24B as a preventative measure (no leak) due to indications of tube wear.	31-May-2014	R&R plan and WO # 00366658-03
1	Snubber load pin	Replaced load pin on pipe support snubber 2CCA-14-H2	22-May-2014	R&R plan and WO # 00383530-01 CR-ANO-2-2014-01248
Notes: Unit 2, 4 th Interval, 2 nd Period				