



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

1CAN031705

March 14, 2017

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

SUBJECT: Inservice Inspection Summary Report for the Twenty-Sixth
Refueling Outage (1R26)
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 summary report to be submitted to the 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 Activity." This 2001 Edition with the 2003 Addenda of the ASME Code is the code of record for the fourth 10-year interval at Arkansas Nuclear One, Unit-1 (ANO-1).

ASME 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 used in this report, N-532-5, is listed in Regulatory Guide (RG) 1.147, "Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1," Revision 17, 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 associated with the twenty-sixth refueling outage for ANO-1 (1R26). This outage was completed on December 14, 2016.

Attached is the completed Form OAR-1 for 1R26 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-532-5. The results that are contained in this submittal are for 1R26.


AD47
NRR

This letter contains no new commitments.

By means of this submittal, the reporting requirements of the ASME Code, Section XI, Article IWA-6000 are fulfilled for 1R26.

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

Sincerely,

 David Bice for Stephanie Pyle

SLP/rwc

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

cc: Mr. Kriss Kennedy
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. Thomas Wengert
MS O-08B1A
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

ATTACHMENT TO

1CAN031705

**Form OAR-1
Owner's Activity Report**

FORM OAR-1 OWNERS ACTIVITY REPORT

Report Number: OAR-1432

Page 1 of 3

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

Unit No: 1 Commercial Service Date: December 19, 1974 Refueling Outage No.: 1R26
(if applicable)

Current Inspection Interval: Fourth (4th) Inspection Interval
(1st, 2nd, 3rd, 4th, Other)

Current Inspection Period: Third (3rd) Inspection Period
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the Inspection Plans: 2001 Edition with 2003 Addenda

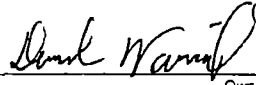
Date and Revision of Inspection Plans: January 13, 2015 / Revision 1 (SEP-ISI-ANO1-101) and April 28, 2016 / Revision 2 (SEP-ISI-ANO1-101)

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the Inspection Plans: Same

Code Cases used for inspection and evaluation: N-513-3, N-532-5
(if applicable, including cases modified by Case N-532 and later revisions)

CERTIFICATE OF CONFORMANCE

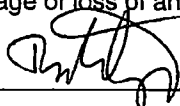
I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of 1R26 conform to the requirements of Section XI.
(refueling outage number)

Signed:  Date: 3/10/17
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 employed by The Hartford Steam Boiler Inspection and Insurance Company of 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 loss of any kind arising from or connected with this inspection.

 Commissions: #14374, A. N. I
Inspector's Signature (National Board Number and Endorsement)

Date: 03/10/17

TABLE 1

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

Examination Category and Item Number	Item Description	Evaluation Description
B-D 01-018	ISI component 01-018	See CR-ANO-1-2016-3870 evaluated as acceptable for the next 10 year ISI interval per IWB-3600 using ANSYS Finite Element. Report No 0801489.401 Rev 1
E-C E1.10	Containment Liner just below the moisture barrier	See CR-ANO-1-2016-4953 Evaluated as acceptable for use as-is for one cycle.
N/A	Code Class T3 Service Water (SW) Supply Pipe to VCC-2A/B Cooling Coils. Thru wall microbiologically induced corrosion (MIC) leak on line class HBD-46-10**	CR-ANO-1-2016-1133 CC-513-3
N/A	Code Class T3 SW Supply Pipe to VCC-2A/B Cooling Coils. Thru wall MIC leak on line class HBD-46-10**	CR-ANO-1-2016-1603 CC-513-3
N/A	Code Class T3 SW Supply Pipe to VCC-2A/B Cooling Coils. Thru wall MIC leak on line class HBD-46-10**	CR-ANO-1-2016-1793 CC-513-3
N/A	Code Class T3 SW Supply Pipe to VCC-2A/B Cooling Coils. Thru wall MIC leak on line class HBD-46-10**	CR-ANO-1-2016-2087 CC-513-3
N/A	Code Class T3 SW Return Pipe from VCC-2A/B Cooling Coils. Thru wall MIC leak on line class HBD-21-10**	CR-ANO-C-2016-4023 CC-513-3
* Item was Repaired / Replaced during 1R26 refueling outage.		

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 Numbers and Work Order (WO) Number
T3	VCC-2D Pipe	SW Header Piping to VCC-2D cooling coil.	03/08/2017	429694-43
3	CV-3812 Piping	Replace SW Piping from FW 119 on 12-SW-101 to CV-3812	03/08/2017	448877-04
2	MU-200-H004	Replace worn Hanger strap	01/04/2017	417655-06
1	CCA-5/MU-167	Perform Base metal repair on CCA piping and correct MR-167 gap tolerances	01/11/2017	457519-06 / CR-1-2016-3249 & 3250
1	DH-1037 Valve/Piping	Redesign hanger and reroute due to fatigue cracking of SW	03/02/2017	457285-01 / CR-1-2016-3225
T3	HBD-21 Piping	Replace SW piping due to pin hole leak (MIC)	01/25/2017	457085-02 / CR-C-2016-4023
1	E-24B	Steam Generator Tube Plugging due to flaws found	11/28/2016	52509003-03
1	E-25A	Steam Generator Tube Plugging due to flaws	11/28/2106	52508998-03
T3	1HBD-45 SW Pipe	Replace SW pipe Item 39&9 (13-SW-119)	01/25/2017	446574-01
T3	1HBD-20 SW Pipe	1HBD-20 Pipe replace due to low reading	01/18/2017	446573-01
3	E29A/E29B HXCs	Replace Letdown Heat Exchangers	03/08/2017	432447-01,02,04,40 / EC 60593
2	MU-200-H005	Pipe Support Wear	01/09/2017	417655-01

**TABLE 2
 (Continued)**

Code Class	Item Description	Description of Work	Date Completed	Repair / Replacement (R&R) Plan Numbers and Work Order (WO) Number
2	P-36 Pipe	Repair/Replace piping	03/08/2017	417656-01 / CR-ANO-1-2016-4517
1	RC-214-H1A	Functional Test Snubber RC-214-H1A Exam No. 86	11/22/2016	413807-04
1	MU-210B	Functional Test Snubber MU-210B Exam No. 85	11/22/2016	413809-04
1	RC-214-H1B	Functional Test Snubber RC-214-HB	11/22/2016	413823-08
1	CCA-9-H15	Functional Test Snubber 2CCA-9-H15	11/22/2016	413810-04
3	HCC-15-3	1HCC-15-3 Pipe SFP	03/22/2016	413605-01 / CR-ANO-1-2015-2111