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Arkansas Nuclear One

10 CFR 50.55a

1CAN012004

January 28, 2020

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

Subject: Inservice Inspection Summary Report for the Twenty-Eighth Refueling Outage

Arkansas Nuclear One, Unit 1
NRC Docket No. 50-313
Renewed Facility Operating License No. DPR-51

Article IWA-6000 of Section XI of the 2007 Edition with the 2008 Addenda of the American Society of Mechanical Engineers (ASME) Code requires an inservice inspection summary report 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." The 2007 Edition with the 2008 Addenda of the ASME Code is the code of record for the fifth 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, "In service 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-eighth refueling outage for ANO-1 (1R28). This outage was completed on November 20, 2019.

Attached is the completed Form OAR-1 for 1R28 for your information. Included with the form are tables listing the "Items with Flaws or Relevant Conditions 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 1R28.

A047
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 1R28.

If there are any questions or if additional information is needed, please contact Tim Arnold, Manager, Regulatory Assurance, Arkansas Nuclear One, at 479-858-7826.

Respectfully,

A handwritten signature in cursive script, reading "Timothy L. Arnold".

Timothy L. Arnold

TLA/rwc

Attachment: Form OAR-1 Owners Activity Report

cc: NRC Region IV Regional Administrator
NRC Senior Resident Inspector -- Arkansas Nuclear One
NRC Project Manager -- Arkansas Nuclear One

Attachment to

1CAN012004

Form OAR-1 Owners Activity Report
(2 pages)

FORM OAR-1 OWNERS ACTIVITY REPORT

Report Number: OAR-1512

Page 1 of 3

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

Unit No: 1

Commercial Service Date: December 19, 1974
(if applicable)

Refueling Outage No.: 1R28

Current Inspection Interval: Fifth (5th) 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 Plans: 2007 Edition with 2008 Addenda

Date and Revision of Inspection Plans: August 23, 2019 / Revision 6 (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-513-4, N-532-5, N-722-1; N-729-4
(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 1R28 conform to the requirements of Section XI.
(refueling outage number)

The NIS-2A form for R&R plan number 52748002-01 could not be signed as documented in CR-ANO-1-2019-04250.

The NIS-2A form for R&R plan number 00497566-01 could not be signed as documented in CR-ANO-1-2020-00062.

Signed: Joe DeVault R+R ENGINEER Date: 1-16-20
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 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 loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Commissions:

#14374, I. N. R.

(National Board Number and Endorsement)

Date: 01/16/2020

FORM OAR-1 OWNERS ACTIVITY REPORT

Report Number: OAR-1512 Page 1 of 3

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

Unit No: 1

Commercial Service Date: December 19, 1974
(if applicable)

Refueling Outage No.: 1R28

TABLE 1 ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE		
Examination Category and Item Number	Item Description	Evaluation Description
B-J B9.40	CCA-5-2 1/2". Install Plug per EC-78176 due to cracked weld**	See Operability evaluation CR-ANO-1-2018-03567
B-J B9.40	Replace tubing adapter for leak repair***	See Operability evaluation CR-ANO-1-2018-03738
N-729-4 (B-P) B4.30 (B15.10)	RPV Upper Head	CR-ANO-1-2019-3094; RFR-ANO1-ISI-033
E-A E1.11	Penetrations P-66; P-67; P-68	CR-ANO-1-2019-3864

* Item was Repaired/Replaced during refueling outage 1R28

** Item was Repaired/Replaced during forced outage 1FO18-01

*** Item was Repaired/Replaced during forced outage 1FO18-02

TABLE 2 ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE				
Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
3	1HBD-20-18	Replace Degraded Piping	12-2-19	498019-01
2	1HBB-3-10"	Replace Service Water Piping	12-19-19	00509938-03
3	1HBD-14 Pipe	Replace Degraded Piping	12-11-19	00311715-01
3	1HBD-45-10	Replace Degraded Piping	12-19-19	00509938-01
3	1HBD-21	Replace Degraded Piping	12-11-19	00311715-02
3	HBD-14	Replace Degraded Piping	9-19-19	00499299-01
3	P-4B	Replace Pump Column due to MIC Corrosion	**	00497566-01
3	CV-3841	Repair Valve	11-21-19	52845781-13
3	1HBD-20-18"	Replace Piping	2-2-19	00498019-01
3	1HCD-118-6"	Replace Piping	11-19-19	00494052-02
3	PSV-1236	Repair Valve	*	52748002-01

* See CR-ANO-1-2019-4250.

** See CR-ANO-2-2020-0062