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January 30, 2019
BW190014

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

Braidwood Station, Unit 2
Renewed Facility Operating License No. NPF-77
NRC Docket No. STN 50-457

Subject: Braidwood Station, Unit 2 Inservice Inspection Summary Report

Enclosed please find the post-outage summary report (i.e., 90-day report) for Inservice Inspection (ISI) examinations conducted prior to and during Braidwood Station, Unit 2 Refueling Outage 20 (A2R20). This report is submitted in accordance with the requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, "Rules for the Inservice Inspection of Nuclear Power Plant Components," and ASME Code Case N-532-5, "Repair/Replacement Activity Documentation Requirements and Inservice Inspection Summary Report Preparation and Submission - Section XI, Division 1."

Attachment 1 provides the Owner's Activity Report (OAR) for ISI activities conducted prior to and during A2R20 including a list of items with flaws or relevant conditions that required evaluation for continued service, and an abstract of repair/replacement activities required for continued service. In addition, Attachment 2 provides a summary description in relation to proper snubber receipt documentation from the A2R20 refueling outage.

Please direct any questions you may have regarding this submittal to Mr. Francis Jordan, Regulatory Assurance Manager, at (815) 417-2800.

A handwritten signature in black ink, appearing to read "Marri Marchionda-Palmer".

Marri Marchionda-Palmer
Site Vice President
Braidwood Station

Attachments:

1. Owner's Activity Report (OAR) for refueling outage A2R20
2. Identified Code Reconciliation for A2R20 Snubbers

cc: Regional Administrator - NRC Region III
NRC Senior Resident Inspector - Braidwood Station
NRR Project Manager - Braidwood Station
Illinois Emergency Management Agency - Division of Nuclear Safety

ATTACHMENT 1

FORM OAR-1 OWNER'S ACTIVITY REPORT

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

**TABLE 2, ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE**

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number A2R20

Plant Braidwood Generating Station, 35100 South Route 53, Suite 84, Braceville, Illinois 60407

Unit No. 2 Commercial Service Date October 17, 1988 Refueling Outage Number A2R20
(if applicable)

Current Inspection Interval Third Inspection Interval (ISI), Second Inspection Interval (Containment ISI)
(1st, 2nd, 3rd, 4th, other)

Current Inspection Period Third Inspection Period (ISI and Containment ISI)
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the Inspection Plans ASME Section XI 2001 Edition through 2003 Addenda

Date and Revision of Inspection Plans September 29, 2017 / Rev. 18; January 26, 2018 / Rev. 19; June 29, 2018 / Rev. 20

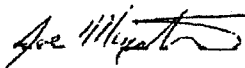
Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans Same as above

Code Cases used: N-460, N-508-4, N-513-4, N-532-5, N-566-2, N-597-2, N-639, N-652-2, N-700, N-706-1, N-729-4, N-731, N-747, N-753, N-798, N-800.

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 A2R20 conform to the requirements of Section XI (refueling outage number)

Signed



(Owner or Owner's designee. Title)

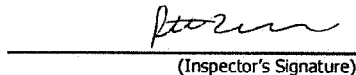
Date

01/29/2019

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 a loss of any kind arising from or connected with this inspection.


(Inspector's Signature)

Commission

15538 I, N, R
(National Board Number and Endorsement)

Date

1/29/2019

See Attachment 1 and Attachment 2 for complete A2R20 Outage Summary Report.

TABLE 1

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

Examination Category	Examination Item Number	Item Description	Evaluation Description
C-H	C7.10	Dry boric acid at 2RH619 flange bolting.	IR 4183438. EC 625976 to address Code Case N-566-2.

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	2SX03A-30"	Replacement of pipe/fittings based on NDE results.	2/1/2018	WO 4585755 (Plan 2-17-007)
3	2SX052A	Replaced butterfly valve that was previously installed backwards.	6/5/2018	WO 4681760 (Plan 2-18-025)
3	2DG01KA-X1	Replaced upper channel head with spare (IR 4145676).	6/1/2018	WO 1648835 (Plan 2-18-027)
3	2CC9495B	Replacement of valve parts during check valve inspection.	10/11/2018	WO 1865859 (Plan 2-18-010)
2	2SI8856B	Replacement of relief valve.	10/15/2018	WO 4617928 (Plan 2-18-020)
3	2SXA9A-6"	Replaced sections of degraded pipe (IR 4183923).	10/19/2018	WO 4842302 (Plan 2-18-053)
1	2RC8001A	Repair leak-off line (IR 4012940, 4200351, 4202190).	10/15/2018	WO 4644410 (Plan 2-18-014)
1	2RC8001C	Repair leak-off line (IR 4012941).	10/16/2018	WO 4644409 (Plan 2-18-013)
1	2RC8001D	Repair leak-off line (IR 4012943).	10/17/2018	WO 4644408 (Plan 2-18-011)
1	2RC8002A	Repair leak-off line (IR 4012945).	10/16/2018	WO 4644406 (Plan 2-18-012)
1	2SI10031S	Replacement of 2SI10031S due to functional test failure (IR 4183330).	10/16/2018	WO 4657610-52 (Plan 2-18-042)
3	2AF02A	Broken stud on oil cooler head (IR 4183969, IR 4200723, ECR 439447, ECR 439497).	10/19/2018	WO 4792976 (Plan 2-18-054)
3	2AF05003V	Required adjustment for component support identified during Section XI exam (IR 4183474).	10/18/2018	WO 4842042
2	2RC48AD-3/8"	Repair 2RC01BD SG bowl drain line (IR 4181129).	10/13/2018	WO 4838931
3	2AF03029X	Required adjustment for component support identified during Section XI exam (IR 4183476).	10/19/2018	WR 1411471
3	2SX011	Replace existing bolting on valve based on Part 21 notification from Curtiss-Wright (IR 4022393, 4022584).	9/19/2018	WO 4655919-01 (Plan 2-17-028)
3	2SX007	Replace cap screws based on Part 21 notification (IR 4022393, 4022584).	1/11/2018	WO 4656021-01 (Plan 2-17-030)

ATTACHMENT 2

IDENTIFIED CODE RECONCILIATION FOR A2R20 SNUBBERS

Braidwood IR 4214087 is a follow up to IR 4201815 and documents that the receipt documentation for snubbers 2SD23098S, 2SI18049S, 2SI05013S, and 2AB23034S cannot be retrieved through plant records. Currently, all attempts to locate the receipt inspection paperwork for these four snubbers remains unsuccessful. The snubbers in question have been stored and controlled in either the Braidwood or Byron warehouse and through the Passport inventory system. They were all successfully functionally tested prior to installation during A2R20.

Certificate of Conformance and code data reports were obtained for these snubbers and documented compliance with Class 1 requirements to ASME Code Section III, Subsection NF, Division 1 of the 1977 Edition Winter 1977 Addenda. The applicable Braidwood Code of Construction is ASME Code Section III, Subsection NF, Division 1 of the 1974 Edition Summer 1974 Addenda. Therefore, a code reconciliation is required to resolve any variance that may exist with the two code years mentioned here. This condition was entered in the Braidwood Corrective Action Program (CAP) for identification and resolution. Again, reference IR 4214087 and IR 4201815 for complete details.