

December 21, 2021

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United States Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Byron Station, Unit 1  
Facility Operating License No. NPF-37  
NRC Docket No. STN50-454

SUBJECT: Byron Station Unit 1 90-Day Inservice Inspection Report for Interval 4, Period 2,  
(B1R24)

The subject 90-Day Inservice Inspection Report for the Byron Station Unit 1, Refueling Outage Twenty-Four (B1R24) is being submitted pursuant to the requirements of Article IWA-6000, "Records and Reports" of Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components," of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code 2007 Edition / 2008 Addenda.

This letter provides a copy of Form OAR-1 Owner's Activity Report for inservice inspection activities performed during the previous fuel cycle. This report meets the requirements of the ASME Code Case N-532-5, "Repair/Replacement Activity Documentation Requirements and Inservice Summary Report Preparation and Submission." The report covers the inservice inspections conducted prior to and during the Unit 1 Fall 2021 refueling outage.

If there are any questions regarding this matter, please contact Ms. Zoe Cox, Regulatory Assurance Manager, at (815) 406-2800.

Respectfully,



John J. Kowalski  
Site Vice President  
Byron Generating Station

JJK/DA/ZC/sg

Enclosure

**FORM OAR-1 OWNER'S ACTIVITY REPORT**

Report Number B1R24

Plant Byron Generating Station, 4450 North German Church Road, Byron, IL 61010

Unit No. 1 Commercial Service Date September 16, 1985 Refueling Outage No. B1R24  
(if applicable)

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

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

Edition and Addenda of Section XI applicable to the inspection plans ASME Section XI 2007 Edition through 2008 Addenda  
Date and revision of inspection plans January 4th, 2017 | Rev. 1; August 18th, 2018 | Rev. 2; October 30<sup>th</sup>, 2020 Rev 0

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

Code Cases used for inspection and evaluation: N-508-4, N-513-5, N-532-5, N-639, N-706-1, N-722-2, N-729-7, N-731, N-770-5, N-798, N-800.

(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 B1R24 conform to the requirements of Section XI.  
(refueling outage number)

Signed  Date 12/20/21  
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 a loss of any kind arising from or connected with this inspection.

 Commission NB 11622 INR 1247431C  
Inspector's Signature (National Board Number and Endorsement)

Date 20 DEC 21

**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	1DG01KA-X2 - SX leak from the lower JW cooler	IR 04390869

**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	1SXE5A	REPLACE PIPE WITH STAINLESS STEEL EC # 631322	09/22/2021	WO 05027587-01
3	1SX68AB	PERFORM PRE-FAB / INSTALL NEW PIPE.	09/19/2021	WO 05146523-04
3	1SXA3A	REMOVE / REPLACE 1SXA3A-6" AND 1SX311B-6" PIPING SPOOL.	09/24/2021	WO 05110603-03