

July 11, 2019

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

Byron Station, Unit 2  
Facility Operating License No. NPF-66  
NRC Docket No. STN50-455

SUBJECT: Byron Station Unit 2 90-Day Inservice Inspection Report for Interval 4, Period 1, (B2R21)

The subject 90-Day Inservice Inspection Report for the Byron Station Unit 2, Refueling Outage Twenty-One (B2R21) 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 2 Spring 2019 refueling outage.

If there are any questions regarding this matter, please contact Mr. Jon Cunzeman, Regulatory Assurance Manager, at (815) 406-2800.

Respectfully,



Mark E. Kanavos  
Site Vice President  
Byron Generating Station

MEK/RP/ZC/rm

Attachment

## FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number B2R21

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

Unit No. 2 Commercial Service Date August 2, 1987 Refueling Outage Number B2R21  
(if applicable)

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

Current Inspection Period First Inspection Period (ISI and Containment ISI)  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>)

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 4<sup>th</sup>, 2017 / Rev. 1; August 18<sup>th</sup>, 2018 / Rev. 2

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

Code Cases used: N-432-1, N-508-4, N-513-3, N-513-4, N-532-5, N-586-1, N-597-2, N-639, N-706-1, N-722-1, N-729-4, N-731, N-770-2, 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 B2R21 conform to the requirements of Section XI (refueling outage number)

Signed

Ramir A Patel  
(Owner or Owner's designee. Title)

Date

7/8/2019

### 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.

James A Niemerg  
(Inspector's Signature)

Commission

NB 11622 INR 144743K  
(National Board Number and Endorsement)

Date

8 JUL 19

**TABLE 1**

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

<b>Examination Category</b>	<b>Examination Item Number</b>	<b>Item Description</b>	<b>Evaluation Description</b>
D-B	D2.10	A through-wall leak on line 2SXL1AA-4" in the dissimilar metal weld between the carbon steel 4"x42" weld-o-let and 4" stainless steel gate valve 2SX265A	IR 04230553 EC Eval: 627794
D-B	D2.10	A small through wall leak on pipe 2SXE5A-3" in the elbow just downstream of check valve 2SX194.	IR 04170307 EC Eval: 625438

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

<b>Code Class</b>	<b>Item Description</b>	<b>Description Of Work</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
3	2SXE5A-3"	Replace piping with through wall leak on elbow downstream of check valve 2SX194.	4/26/2019	WO 04826853-01
3	2SX03B-42"	Repair leak at toe of the weld between 2SX265A (valve) and 2SXL1AA-4 (Weld-O-Let).	3/22/2019	WO 04899280-01
1	2RC01BA-LLR	Required adjustment for loose nut on 2RC01BA-LLR support identified during Section XI exam (IR 04239442)	4/23/2019	WO 04725128-01