

December 20, 2018

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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 1,
(B1R22)

The subject 90-Day Inservice Inspection Report for the Byron Station Unit 1, Refueling Outage Twenty-Two (B1R22) 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 2018 refueling outage.

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

Respectfully,



Thomas D. Chalmers
Plant Manager
Byron Generating Station

TDC/RP/ZC/rm

Attachment

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 B1R22

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

Unit No. 1 Commercial Service Date September 16, 1985 Refueling Outage Number B1R22
(if applicable)

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

Current Inspection Period First 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

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 B1R22 conform to the requirements of Section XI (refueling outage number)

Signed  Date 12/18/2018
(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 1L017431C
(Inspector's Signature) (National Board Number and Endorsement)

Date 18 DEC 18

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

Examination Category	Examination Item Number	Item Description	Evaluation Description
D-B	D2.10	Fuel Pool Cooling discharge piping leak identified on line 0FC03B-14".	IR 04084103 EC 622466
D-B	D2.10	Leak on Essential Service Water (SX) supply to 1B Diesel Generator on line 1SX26AB-10".	IR 04157641 EC 624907
D-B	D2.10	Pin hole leak on Tee Branch 1SX311B-6".	IR 04169586 EC 625399
C-H	C7.10	1SI8877A bolted connection (body to bonnet)	IR 04171290 Evaluated under BACC Program
C-H	C7.10	1SI8878C bolted connection (body to bonnet)	IR 04171304 Evaluated under BACC Program
B-P	B15.10	1RC8037A bolted connection (body to bonnet)	IR 04171334 Evaluated under BACC Program
C-H	C7.10	1SI8889C bolted connection (body to bonnet)	IR 04171335 Evaluated under BACC Program
B-P	B15.10	1RC8037B bolted connection (body to bonnet)	IR 04172132 Evaluated under BACC Program

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	0SXB3AB	Replaced the degraded pipe and elbow on line 0SXB3AB. IR 04054456	1/5/2018	WO 04689496-01
3	0WO04AA	Replace degraded sections on 0WO04AA-6" as required. IR 04053548.	5/9/2018	WO 04596749-57
3	1SX26AB	Perform base metal repair of pipe 1SX26AB-10" as approved by EC 437377. IR 04157641	9/25/2018	WO 04809970-01
1	1SI04024S	Replace snubber 1SI04024S due to functional test failure. IR 04173635	9/18/2018	WO 04639454-01
1	1SI04003S	Replace snubber 1SI04003S due to functional test failure. IR 04174252	9/20/2018	WO 04830562-01
1	1SI09021S	Replace snubber 1SI09021S due to functional test failure. IR 04175043	9/22/2018	WO 04832086-01
1	1RC01BA-LLR	Replace broken fillet weld for shim plate assembly on support 1RC01BA-LLR. IR 04173407	9/18/2018	WO 04830422-01
1	1RC01BD-LLR	Replace broken fillet weld for shim plate assembly on support 1RC01BD-LLR. IR 04174489	9/20/2018	WO 04832096-01
3	1SX311B	Repair Pin hole leak on Tee Branch 1SX311B-6". IR 04169586	9/15/2018	WO 04825544-01
3	0FC03B	Permanent repair for Fuel Pool Cooling discharge piping leak identified on line 0FC03B-14". EC 622527. IR 04084103	1/16/2018	WO 04724491-01