



Energy Harbor Nuclear Corp.  
Beaver Valley Power Station  
P. O. Box 4  
Shippingport, PA 15077

Rod L. Penfield  
Site Vice President, Beaver Valley Nuclear

724-682-5234

July 28, 2020  
L-20-195

10 CFR 50.55a(g)

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

SUBJECT:  
Beaver Valley Power Station, Unit No. 2  
Docket No. 50-412, License No. NPF-73  
Twenty-First Refueling Outage Inservice Inspection Summary Report

In accordance with 10 CFR 50.55a, "Codes and standards," and the American Society of Mechanical Engineers Boiler and Pressure Vessel Code (ASME Code) Case N-532-5, "Repair/Replacement Activity Documentation Requirements and Inservice Inspection Summary Report Preparation and Submission, Section XI, Division 1," enclosed please find the inservice inspection owner's activity report for examinations performed prior to and during the twenty-first refueling outage at Beaver Valley Power Station, Unit No. 2 (BVPS-2).

Inservice inspection activities addressed in the report were performed during the first period of the fourth ten-year interval in accordance with Section XI of the ASME Code, 2013 Edition. The inservice inspection term at BVPS-2 covered by this report includes the period from November 15, 2018 to May 6, 2020.

This letter contains no new regulatory commitments. If you have any questions regarding this report, please contact Mr. Phil H. Lashley, Manager – Fleet Licensing, at (330) 696-7208.

Sincerely,

A handwritten signature in black ink, appearing to read "Rod L. Penfield", written over a white background.

Rod L. Penfield

Enclosure: Beaver Valley Power Station, Unit No. 2, Twenty-First Refueling Outage Inservice Inspection Owner's Activity Report

cc: NRC Region I Administrator  
NRC Resident Inspector  
NRC Project Manager  
Director BRP/DEP  
Site BRP/DEP Representative

Enclosure  
L-20-195

Beaver Valley Power Station, Unit No. 2  
Twenty-First Refueling Outage Inservice Inspection Owner's Activity Report

(2 pages follow)



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

Report Number BV2-OAR1-2R21

Plant Beaver Valley Power Station

Unit No. 2 Commercial Service Date November 17, 1987 Refueling Outage No. 2R21  
(if applicable)

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

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

Edition and Addenda of Section XI applicable to the inspection plan 2013 Edition

Date and Revision of inspection plans 8/29/18, ADM-2039, Rev. 18

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

Code Case Used: N-532-5, N-722-1, N-729-4, N-770-2, N-716-1, and N-513-4  
(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 completion of 2R21 conform to the requirements of Section XI.  
(refueling outage number)

Signed [Signature] Date 6/29/20  
L. Seaman, ISI Program Engineer

**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 Hartford Steam Boiler Inspection and Insurance Company of Hartford, Connecticut have inspected the items described in the

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.

[Signature] P. Bolbrich Commission NB 15908 NI  
Inspector's Signature (National Board Number and Endorsement)

Date 6/29/2020



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

Examination Category and Item Number	Item Description	Evaluation Description
None	N/A	N/A

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

Code Class	Item Description	Description of Work	Date Completed (1)	Repair/Replacement Plan Number
3	2-SWS-003-875-3	Remove indication and add branch connection in an area where code case N-513-4 was used for continued service. (CR-2020-01436)	06/01/2020	4238
1	Reactor Head Control Rod Drive Mechanism Nozzle Number 27	Buffing/grinding to remove a surface discontinuity which caused a Liquid Penetrant exam indication in the previously repaired weld overlay surface. (CR-2020-03590)	05/12/2020	4243
1	Reactor Head Control Rod Drive Mechanism Nozzle Number 37	Weld overlay repair applied per approved relief request 2-TYP-4-RV-04 (CR-2020-03591)	05/12/2020	4241

Notes:

- (1) "Date Completed" is the date that the Repair Replacement Plan final signature was applied. This date may be after the end of the reporting period for work that was physically completed within the reporting period.
- (2) Steam Generator activities are reported under separate correspondence in Technical Specification required reports.