



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE RD, STE 102  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

June 7, 2023

Barry Blair  
Site Vice President  
Energy Harbor Nuclear Corporation  
Beaver Valley Power Station  
P.O. Box 4 – Route 168  
Shippingport, PA 15077-0004

SUBJECT: BEAVER VALLEY POWER STATION, UNITS 1 AND 2 – REQUEST FOR INFORMATION AND NOTIFICATION OF CONDUCT OF IP 71111.21.N.04, “AGE-RELATED DEGRADATION,” REFERENCE INSPECTION REPORT 05000334/2023011 AND 05000412/2023011

Dear Barry Blair:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) staff will conduct IP 71111.21N.04, “Age-Related Degradation” baseline inspection at Beaver Valley Power Station, Units 1 and 2 in October 2023. Niklas Floyd, a Senior Reactor Inspector from the NRC’s Region I office, will lead the inspection team. The team will be composed of personnel from the NRC Region I Office. The inspection will be conducted in accordance with IP 71111.21N.04 (ADAMS Accession No. ML22210A107). The inspection will evaluate the implementation of the programs and activities to determine on a sampling basis that age-related degradation of structures and components (SCs) is identified and addressed.

The schedule for the inspection is as follows:

- Information gathering visit: Week of August 14, 2023
- Onsite inspection: Weeks of October 16 and October 30, 2023

The purpose of the information gathering visit is to become familiar with the station maintenance, surveillance, testing, inspection, and condition monitoring programs, become familiar with plant layout, support identification of SCs that will be reviewed during the inspection, and, as necessary, obtain plant specific site access training and badging for unescorted site access. An initial list of documents that the team will review during the information gathering visit are listed in enclosure 1.

During the information gathering visit, the team will also discuss the following inspection support administrative details: office space size and location; specific documents requested to be made available to the team in their office spaces; arrangements for reactor site access and the availability of knowledgeable plant staff and licensing organization personnel to serve as points of contact during the inspection.

For SCs that the inspection will review, an initial list of the documents the team will review during the conduct of the inspection are listed in enclosure 2. The team leader will contact you with identified SCs by September 1, 2023. Also, personnel should be available at the site during the inspection who are knowledgeable regarding maintenance, surveillance, testing, inspection, and condition monitoring programs.

This letter does not contain new or amended information collection requirements subject to the *Paperwork Reduction Act of 1995* (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, under Control Number 3150-0011. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

In accordance with 10 CFR 2.390 of the NRC rules and practices, a copy of this letter and its enclosures will be available electronically for public inspection in the NRC public document room or from the publicly available records component of NRC's document system (ADAMS). ADAMS is accessible from the NRC website (<http://www.nrc.gov/reading-rm/adams.html>).

This baseline inspection and the supporting inspection procedure and documentation template are new to the Reactor Oversight Process this year. As such, please communicate with the team lead readily if there are questions as to document scope or suggestions to better accomplish this process.

Sincerely,

Mel Gray, Chief  
Engineering Branch 1  
Division of Operating Reactor Safety

Docket Nos. 05000334 and 05000412  
License Nos. DPR-66 and NPF-73

Enclosure:

1. Documents requested for information gathering visit
2. Documents requested for inspection

cc: Distribution via ListServ

SUBJECT: BEAVER VALLEY POWER STATION, UNITS 1 AND 2 – REQUEST FOR INFORMATION AND NOTIFICATION OF CONDUCT OF IP 71111.21.N.04, “AGE-RELATED DEGRADATION,” REFERENCE INSPECTION REPORT 05000334/2023011 AND 05000412/2023011 DATED JUNE 7, 2023

**DISTRIBUTION:**

- NFloyd, DORS
- MGray, DORS
- MYoung, DORS
- NWarnek, DORS
- JDeBoer, DORS
- JBresson, DORS
- BTowne, DORS, SRI
- RRolph, DORS, RI
- CFragman, DORS, AA
- PZurawski, RI OEDO
- RidsNrrPMBeverValley Resource
- RidsNrrDorlLp1 Resource

DOCUMENT NAME: [https://usnrc.sharepoint.com/teams/Region-I/EB1/Documents/Inspections/Current/Beaver Valley ARD/BV ARD Request for Information\\_2023.docx](https://usnrc.sharepoint.com/teams/Region-I/EB1/Documents/Inspections/Current/Beaver Valley ARD/BV ARD Request for Information_2023.docx)  
 ADAMS ACCESSION NUMBER: ML23157A107

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DORS	RI/DORS			
NAME	NFloyd	MGray			
DATE	6/2/2023	6/6/2023			

OFFICIAL RECORD COPY

## Enclosure 1: Documents Requested for Information Gathering Visit

The following information is requested by August 14, 2023, which is the first day of the information gathering trip. Electronic format is the preferred media. If electronic media is made available via an internet based remote document management system, then the remote document access must allow inspectors to download, save, and print the documents in the NRC's regional office. Electronic media on compact disc or paper records (hard copy) are acceptable. At the end of the inspection, the documents in the team's possession will not be retained.

This document request is based on typical documents that a generic plant might have. As such, this document request is not meant to imply that any specific plant is required to have all of the listed documents. In addition, your plant specific document titles may vary from the document titles listed below.

### Contact Information:

Team Lead: Niklas Floyd

Email: [Niklas.Floyd@nrc.gov](mailto:Niklas.Floyd@nrc.gov)

Telephone: (610) 337-5282

### Documents Requested:

- 1) A list of 50.65 (a)(1) SSCs from the past 5 years.
- 2) A list of maintenance rule functional failures from the past 5 years.
- 3) A list of most recent system health status for Tier 1 and degraded Tier 2 systems as defined in the Beaver Valley maintenance rule procedures.
- 4) The most recent evaluation of maintenance effectiveness required per 10 CFR 50.65(a)(3).
- 5) The maintenance rule scoping document and performance criteria.
- 6) List of corrective action documents associated with component failures, or keyword search of "aging," "age-related," "wear," "accelerated wear," "corrosion," "abnormal wear," "accelerated degradation," and "abnormal degradation" from the past 5 years. Please include a short description of the issue in the system generated listing.
- 7) A list of Part 21 Reports applicable to the site from the past 5 years.
- 8) A list of technical specification operability determinations from the past 5 years as defined in Beaver Valley implementing procedures.
- 9) A list of top 100 most risk-significant structures and components. If possible, designate the component as active or passive in the risk ranking.
- 10) The site-specific probabilistic risk assessment (PRA) identifying risk-significant functions and latest PRA Summary Document.

## **Enclosure 1: Documents Requested for Information Gathering Visit**

- 11) Scoping document and basis for 10 CFR 50.49, Environmental Qualification.
- 12) Aging management programs and basis documents.
- 13) Technical requirements manual.
- 14) List of systems (system numbers / designators and corresponding names).
- 15) List of PM deferrals and PM change requests in the last 5 years.

## Enclosure 2: Documents Requested for Inspection

The following information is requested to be available by October 2, 2023. The team lead will identify samples (i.e., structures and components) after the information gathering visit. This information represents a partial list of needed information for the onsite inspection. The information should be separated for each selected component or structure.

### Documents Requested:

- 1) List of corrective action documents associated with each selected structure or component for the last 5 years.
- 2) Maintenance, surveillance, testing, inspection, and condition monitoring testing requirements, acceptance criteria, and periodicities for the selected samples.
- 3) The bases documents associated with maintenance, surveillance, testing, inspection, condition monitoring testing requirements, acceptance criteria, and periodicities.
- 4) The last two years of maintenance, surveillance, testing, inspection, and condition monitoring testing results for the selected samples. For periodicities greater than two years, provide the last two test results.
- 5) Self-imposed and vendor recommendations.