



Beaver Valley Power Station
Barry N. Blair
Site Vice President
P.O. Box 4
Shippingport, PA 15077

L-24-164
June 27, 2024

10 CFR 50.73

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

SUBJECT:
Beaver Valley Power Station, Unit No. 2
BV-2 Docket No. 50-412, License No. NPF-73
Post Accident Monitor Report

The attached report is submitted in accordance with Beaver Valley Power Station (BVPS) Unit No. 2 Technical Specifications 3.3.3 and 5.6.5. This report is required due to the inoperability of a BVPS Unit No. 2 Containment High Range Radiation Monitor for a period in excess of the 30-day restoration time.

There are no regulatory commitments contained in this submittal. If there are any questions or if additional information is required, please contact Ms. Hope Gilliam, Manager, Regulatory Compliance, at 724-682-4224.

Sincerely,

A handwritten signature in blue ink, appearing to read "Barry N. Blair". The signature is fluid and cursive, with a large initial "B" and "N".

Barry N. Blair

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Attachment: Beaver Valley Power Station Unit 2 Post Accident Monitor Report

cc: NRC Region I Administrator
NRC Senior Resident Inspector
NRC Project Manager
BRP / DEP

Attachment
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Beaver Valley Power Station Unit 2 Post Accident Monitor Report
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This report is being submitted for Beaver Valley Power Station Unit No. 2 (BVPS-2) per Technical Specification (TS) 5.6.5 titled "Post Accident Monitoring Report." TS 3.3.3 titled "Post Accident Monitoring (PAM) Instrumentation" requires that two channels of Containment Area Radiation (High Range) instruments be Operable during plant operation in Modes 1, 2, and 3. On May 22, 2024, one channel of Containment Area Radiation (High Range) was declared inoperable and TS 3.3.3 Condition A was entered. TS 3.3.3 Condition A requires channel restoration to Operable status in 30 days. If TS 3.3.3 Condition A is not satisfied in 30 days, then TS 3.3.3 Condition B is entered. When the channel was not restored within 30 days, Condition B was entered which requires initiation of action in accordance with TS 5.6.5. This TS Administrative Controls Reporting Requirement requires a report be submitted within 14 days outlining the preplanned alternate method of monitoring, the cause of the inoperability, and the plans and schedule for restoring the instrumentation channel of the function to operable status.

Description of Issue

On May 22, 2024, Containment High Range Radiation Monitor, 2RMR-RQ207, went into alarm for "monitor no pulses received." Initial attempts were made to clear the no pulses received alarm by performing a manual check source operation from both the Digital Radiation Monitor System (DRMS) console and locally at the skid. In both cases, initiating a check source did not clear the alarm. Per the DRMS troubleshooting guidance, if the check source operation does not clear the no pulses received alarm, then the radiation monitor should be placed out of service.

On May 22, 2024, 2RMR-RQ207 was placed out of service resulting in entry into TS 3.3.3 Condition A.

Cause of the Inoperability and Action Taken

The cause, based on troubleshooting to date, is likely the log picoamp / ADC circuit board. During troubleshooting activities, the circuit board was found out of tolerance. There was an attempt to calibrate the circuit board without success. Additional troubleshooting found no other anomalies.

Preplanned Alternate Method of Monitoring

The alternate method of monitoring for the out of service radiation monitor, 2RMR-RQ207, is using the redundant radiation monitor 2RMR-RQ206. Both 2RMR-RQ207 and 2RMR-RQ206 are containment high range monitors. 2RMR-RQ206 is protected until 2RMR-RQ207 is returned to service.

Plan and Schedule for Restoring the Instrumentation Channel

The log picoamp / ADC circuit board is being sent to the vendor, General Atomics, for refurbishment or a replacement board. It is currently expected that repairs can be performed within approximately 90 days after receiving the refurbished or replacement circuit board.