



Post Office Box 2000, Spring City, Tennessee 37381

WBL-24-019

April 30, 2024

10 CFR 50.4

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

Watts Bar Nuclear Plant, Unit 1
Facility Operating License No. NPF-90
NRC Docket No. 50-390

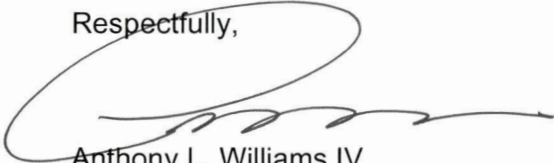
Subject: **Technical Specification (TS) 5.9.8 - Post Accident Monitoring System (PAMS) Report**

The program requirements for the Watts Bar Nuclear Plant (WBN) Post Accident Monitoring System (PAMS) requires a report to be submitted within 14 days when Condition B of Technical Specification (TS) Limiting Condition for Operation (LCO) 3.3.3, "Post Accident Monitoring (PAM) Instrumentation," is entered. On March 23, 2024, LCO 3.3.3 Condition A was entered due to a trend which indicated that the Unit 1 Lower Containment Post Accident Area Radiation Monitor ,1-RM-90-274-B, was failing. This Radiation Monitor was spiking and causing alarms. On April 22 2024, WBN entered TS 3.3.3 Condition B for this event when the inoperable condition had been present for 30 days, requiring a special report to the NRC. This special report is provided in the enclosure.

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There are no new regulatory commitments in this letter. Please direct any questions concerning this matter to Jonathan Johnson, WBN Licensing Manager, at jtjohnson0@tva.gov.

Respectfully,

A handwritten signature in black ink, appearing to read 'Anthony L. Williams IV', with a large, sweeping flourish that loops back to the left.

Anthony L. Williams IV
Site Vice President
Watts Bar Nuclear Plant

Enclosure
Technical Specification 5.9.8 PAMS Report

cc: (w/ enclosure)
NRC Regional Administrator - Region II
NRC Senior Resident Inspector - Watts Bar Nuclear Plant
NRC Project Manager - Watts Bar Nuclear Plant

Enclosure
Technical Specification 5.9.8 PAMS Report

Background

The Watts Bar Nuclear Plant (WBN) Technical Specification (TS) 3.3.3, "Post Accident Monitoring (PAM) Instrumentation," specifies the operability requirements for PAM instrumentation. TS Table 3.3.3-1, Function 12, "Containment Radiation (High Range)" requires two channels for upper and lower containment, respectfully. On March 23, 2024, LCO 3.3.3 Condition A was entered due to a trend which indicated that the Unit 1 Lower Containment Post Accident Area Radiation Monitor 1-RM-90-274-B was failing. This Radiation Monitor was spiking and causing alarms. During the failure of 1-RM-90-274-B on March 23, 2024, no abnormal radiation was detected on any other radiation monitors.

TS 3.3.3 Limiting Condition for Operation (LCO) Condition A allows a single indication channel to be inoperable for 30 days. If the indication channel is not restored within 30 days, LCO Condition B is entered, which requires action to be taken immediately in accordance with TS 5.9.8 . TS 5.9.8 requires a report to be submitted to the Nuclear Regulatory Commission within 14 days.

This report outlines the preplanned alternate method of monitoring, the cause of inoperability, and the plans and schedule for restoring the instrumentation channels of the Function to OPERABLE status.

Preplanned Alternate Method of Monitoring

With 1-RM-90-274-B out of service, NPG-SPP-18.3.5, "Equipment Important to Emergency Response," states to use alternate indication available to perform the same function with loss of a single monitor. The other available Containment High Range Post Accident Radiation Monitors are 1-RM-90-271-A, 1-RM-90-272-B, and 1-RM-90-273-A.

Cause of inoperability

On March 23, 2024, LCO 3.3.3 Condition A was entered due to a trend which indicated that the Unit 1 Lower Containment Post Accident Area Radiation Monitor 1-RM-90-274-B was failing. This Radiation Monitor was spiking and causing alarms. Condition Report (CR) 1919058 was generated for this issue. This CR documents troubleshooting cannot be accomplished with the unit online. Therefore, the cause for this issue is currently unknown.

Plans and schedule for restoring the instrumentation channels of the Function to OPERABLE status

Due to not being able to troubleshoot this issue with the unit online, repairs to 1-RM-90-274-B are scheduled to be performed by Work Order (WO) 124384933 during the WBN Unit 1 Refueling Outage 19 in the Fall of 2024.