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Director, Regulatory Compliance
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601-368-5516

W3F1-2023-0048 10 CFR 50.4

September 25, 2023

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

Subject: Special Report SR 2023-004-00
Radiation Monitor Inoperable Greater Than 7 Days

Waterford Steam Electric Station, Unit 3
NRC Docket No. 50-382
Renewed Facility Operating License No. NPF-38

Entergy Operations, Inc. (Entergy) is submitting Special Report SR-2023-004-00 for Waterford Steam Electric Station, Unit 3 (Waterford 3). This Special Report is submitted as required by Waterford 3 Technical Specification (TS) 3.3.3.1, "Radiation Monitoring Instrumentation," which requires the minimum number of Effluent Accident Monitor channels shown in TS Table 3.3-6 to be operable. If the monitor is not restored to operable status within 7 days after the failure, a Special Report is required to be submitted in accordance with TS 6.9.2 within 14 days after the failure outlining the actions taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.

This letter contains no new commitments.

Should you have any questions concerning this issue, please contact me at 601-368-5516.

Respectfully,

Stephenie Pyle

Digitally signed by Stephenie Pyle
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Stephenie Pyle

SLP / mrp

Enclosure: Waterford 3 Special Report SR-2023-004-00

cc: NRC Region IV Regional Administrator
NRC Senior Resident Inspector – Waterford Steam Electric Station, Unit 3
NRC Project Manager – Waterford Steam Electric Station, Unit 3
Louisiana Department of Environmental Quality

Enclosure

W3F1-2023-0048

Waterford 3 Special Report SR-2023-004-00

Waterford 3 Special Report SR-2023-004-00

DESCRIPTION

The Waterford Steam Electric Station, Unit 3 (Waterford 3) Plant Stack (PS) Wide Range Gas Monitor (WRGM) (PRMIR0110) radiation monitor was declared inoperable on September 11, 2023. Operability was not restored within the required 7-day period as specified in Waterford 3 Technical Specification (TS) 3.3.3.1, "Radiation Monitoring Instrumentation," Table 3.3-6. This Special Report is submitted to the Nuclear Regulatory Commission (NRC) in accordance with TS 6.9.2, "Special Reports," and 10 CFR 50.4, "Written communications," within the next 14 days outlining the actions taken, the cause of the inoperability and the plans and schedule for restoring the system to operable status.

The Plant Stack WRGM monitors air being released from the plant stack and measures the radiation being released to the environment, if any, during both normal and accident conditions.

ACTIONS TAKEN

On September 11, 2023, during the planned maintenance of PRMIR0110, Plant Stack WRGM process flow probe and corresponding signal conditioning circuit board (SCCB) were found low out of tolerance. The SCCB was adjusted in tolerance and Instrument and Controls (I&C) personnel continued with planned maintenance activities.

On September 14, 2023, I&C technicians attempted to perform flow calibrations and discovered that the MID / HIGH flow loop could not be calibrated.

Maintenance and Engineering conducted initial troubleshooting and discovered a faulty flow measurement probe. Actions were taken to procure a replacement SCCB and corresponding probe. After installing a replacement SCCB and probe, PRMIR0110 remained unable to calibrate. A second replacement SCCB and probe was procured and installed and the monitor was unable to be calibrated. I&C troubleshooting activities are in progress.

CAUSE OF INOPERABILITY

The cause of the inoperability of Plant Stack WRGM cannot be determined until troubleshooting has completed. A supplement to this Special Report will be submitted to the Commission after troubleshooting is completed and a cause can be determined.

PLANS AND SCHEDULE FOR RESTORING OPERABLE STATUS

The estimated date for restoration to operable status is October 6, 2023.