

W3F1-2022-0042

10 CFR 50.4

June 27, 2022

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

Subject: Special Report SR-22-003-00
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-22-003-00 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 John D. Lewis, Manager, Regulatory Assurance, at 504-739-6028.

Respectfully,

John D Lewis

Digitally signed by John D
Lewis
Date: 2022.06.27 12:40:19
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John D. Lewis

JDL/jkb

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Enclosure: Waterford 3 Special Report SR-2022-003-00

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 to

W3F1-2022-0042

Special Report SR-2022-003-00

**SPECIAL REPORT
SR-22-003-00**

Radiation Monitor Inoperable Greater Than 7 Days

SUMMARY

The Waterford Steam Electric Station, Unit 3 (Waterford 3) Containment High Range Radiation Monitor Train B (ARMIRE5400B) was declared inoperable due to sporadic indication on June 13, 2022. The instrument could not be successfully repaired due to the unavailability of a replacement part. Because the monitor was not returned to service within 7 days, this report is submitted in accordance with Technical Specification (TS) 3.3.3.1, "Radiation Monitoring Instrumentation," and in accordance with TS 6.9.2 which requires a Special Report in accordance with 10 CFR 50.4 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.

NARRATIVE

The Containment High Range Radiation Monitor Train B (ARMIRE5400B) is used to provide containment radiation levels indicative of a breach of the barriers to radioactive release following an accident.

Table 3.3-6 of TS 3.3.3.1 requires that this instrument be operable in Modes 1 through 4. Action 27 of TS Table 3.3-6 requires that, with the number of operable channels less than required by the minimum channels operable requirement, either restore the inoperable channel(s) to operable status within 72 hours, or initiate the preplanned alternate method of monitoring the appropriate parameter(s), and if the monitor is not restored to operable status within 7 days after the failure, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within 14 days after the failure outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to operable status.

TS Administrative Controls Special Reports states:

6.9.2 Special reports shall be submitted in accordance with 10 CFR 50.4 within the time period specified for each report.

At 1730 CDT on June 13, 2022, Operations personnel at Waterford 3 declared the Containment High Range Radiation Monitor Train B (ARMIRE5400B) inoperable due to sporadic indication. The required actions were taken in accordance with TS 3.3.3.1, Table 3.3-6, and an entry in the Equipment Out of Service log was initiated to track the condition. The Chemistry Department established the pre-planned alternate method of monitoring as required.

Actions were taken to repair a failed Log Picoammeter and Analog to Digital Converter (ADC)

circuit board but were unsuccessful. Based on replacement circuit board availability and maintenance actions taken, the damaged Log Picoammeter and ADC board will be returned to the vendor for repair. This repair process is expected to be completed in approximately two months (late August 2022). In parallel, a new replacement circuit board is expected to be received by December 21, 2022. The repaired card or the new replacement card will be installed expeditiously upon receipt to complete repairs and restore ARMIRE5400B to operable status.