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W3F1-2021-0005

January 21, 2021

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

Subject: Special Report SR-21-002-00
Log Power Channel D Inoperable for Greater than 30 Days

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

Attached is Special Report Number SR-21-002-00 for Waterford Steam Electric Station, Unit 3. This Special Report is submitted in accordance with Technical Specification 3.3.3.6.

This letter contains no new regulatory commitments.

If you have any questions or require additional information, please contact Paul Wood, Regulatory Assurance Manager, at 504-464-3786.

Paul Wood

Paul Wood

PIW/jkb

 Digitally signed by Paul Wood
Date: 2021.01.21 08:58:24 -06'00'

Enclosure: Waterford 3 Special Report SR-21-002-00

cc: NRC Region IV Regional Administrator
NRC Senior Resident Inspector – Waterford Steam Electric Station, Unit 3
NRR Project Manager

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ENCLOSURE

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Entergy Operations, Inc.

Waterford 3 Special Report SR-21-002-00

**SPECIAL REPORT
SR-21-002-00**

Safety Log Power Channel D Inoperable Greater Than 30 Days

SUMMARY

The Safety Log Power Channel D was declared inoperable due to failure to meet channel check requirements on December 13, 2020. Repairs could not be completed since it required access to the reactor area which is not possible at power. Since the instrument was not returned to service within 30 days, this report is submitted pursuant to Technical Specification (TS) 3.3.3.6.

NARRATIVE

The operability of the accident monitoring instrumentation ensures that sufficient information is available on selected plant parameters to monitor and assess these variables following an accident. The availability of accident monitoring instrumentation is important so that responses to corrective actions can be observed and the need for, and magnitude of, further actions can be determined.

TS 3.3.3.6, Table 3.3-10, requires Log Power Channel D to be operable in Modes 1 through 3. Action 29 requires:

With the number of OPERABLE accident monitoring channels less than the Required number of Channels as shown in Table 3.3-10, either restore the inoperable channel to OPERABLE status within 30 days, or prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the following 14 days. The reports shall outline the preplanned alternate method of monitoring, the cause of the inoperability, and the plans and schedule for restoring the instrumentation channels to OPERABLE status.

At 2216 hours on December 13, 2020, Operations personnel observed that Log Power Channel D was not meeting channel check requirements. Log Power Channel D was indicating approximately 1.5 decades higher than the other Log Power Channels. Log Power Channel D was declared inoperable. The required actions per TS 3.3.3.6 were taken and an Equipment Out of Service log was initiated to track the condition.

Preplanned Alternate Method of Monitoring

The preplanned alternate method of monitoring is to utilize Log Channels A and B alternate instruments for accident monitoring with log channel D failed.

Cause of the Log Power Channel D Inoperability

The cause of the inoperability of Log Power Channel D is intermittent noise induction into the instrument signal. Troubleshooting indicates that noise induction is occurring into the detector cable connectors. The induced electrical noise results in an elevated indication on Log Power Channel D and a failure to meet channel checks.

Schedule for Restoration of Log Power Channel D

Refueling Outage 24 is the next scheduled opportunity to resolve the conditions listed above. A work order has been issued to correct the condition.