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

10 CFR 50.4

Ladies and Gentlemen:

**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
RENEWED FACILITY OPERATING LICENSE NPF-30
SPECIAL REPORT 2022-01
NON-FUNCTIONALITY OF LOOSE PARTS MONITORING CHANNEL
FOR GREATER THAN 30 DAYS**

Enclosed is a special report addressing the non-functionality of a loose parts monitoring channel at Callaway Plant.

No new commitments are identified in this correspondence, and none of the material in this report is considered proprietary by Union Electric Company (Ameren Missouri).

If there are any questions, please contact Tom Elwood, Supervising Engineer, Regulatory Affairs and Licensing at 314-225-1905.

Sincerely,

Steve J. Meyer
Manager, Regulatory Affairs

Enclosure

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Special Report 2022-01

Requirement

Callaway Plant's Final Safety Analysis Report (FSAR), Section 16.3.3.5, specifies functionality requirements for the reactor coolant system (RCS) loose parts detection instrumentation. The Limiting Condition for Operation (LCO) specified per FSAR 16.3.3.5 requires loose parts detection system channels to be functional in MODES 1 and 2. Specifically, with a required channel inoperable for more than 30 days, Action A applies, which states, "With one or more Loose-Part Detection System channels non-functional for more than 30 days, prepare and submit a Special Report to the Commission within the next 10 days outlining the cause of the malfunction and the plans for restoring the channel(s) to FUNCTIONAL status."

Cause of the Loose-Parts Monitoring Instrument Non-Functionality

Channel 3, one of two redundant loose-parts monitoring channels for the reactor vessel head, was declared non-functional and removed from service on December 6, 2021 due to excessive nuisance alarms from conservative setpoints for alarm thresholds.

Plans for Restoring the Channel to Functional Status

Restoration of Channel 3 of the loose-parts monitoring system will require plant data to be collected and transmitted to the equipment vendor for analysis. The vendor will provide new threshold values required to restore the channel to functionality. Channel 4 of the loose-parts monitoring system, which also monitors the reactor vessel head, is currently functional.