

May 2, 2018

ULNRC-06435

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

10 CFR 50.36

Ladies and Gentlemen:

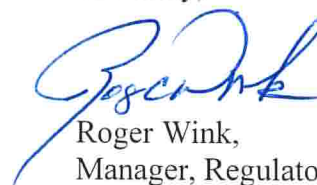
**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
RENEWED FACILITY OPERATING LICENSE NPF-30
SPECIAL REPORT 2018-01
NON-FUNCTIONALITY OF LOOSE PARTS MONITORING CHANNEL
FOR GREATER THAN 30 DAYS**

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 Mr. Thomas Elwood, Supervising Engineer, Regulatory Affairs and Licensing at 314-225-1905.

Sincerely,



Roger Wink,
Manager, Regulatory Affairs

Enclosure

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Index and send hardcopy to QA File A160.0761

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Special Report 2018-01

Requirement

Callaway Plant's Final Safety Analysis Report (FSAR) Section 16.3.3.5 contains requirements for reactor coolant system (RCS) loose-part detection instrumentation. The Limiting Condition for Operation (LCO) specified per FSAR 16.3.3.5 requires the loose-part detection system to be Functional in MODES 1 and 2. With a required channel non-functional for more than 30 days, Action A applies. It 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 OPERABLE status."

Cause of the Loose-Part Detection Instrument Non-Functionality

Channel 3 of the loose-part monitoring system (reactor vessel head) was declared inoperable and removed from service on March 29, 2018 due to excessive nuisance alarms from conservative setpoints for manual and alarm thresholds.

Plans for Restoring the Channel to Functional Status

Restoration of Channel 3 of the loose-parts monitoring system will require that plant data be collected and transmitted to the equipment vendor for analysis. The vendor will prepare a baseline data report documenting system sensitivity and conformance to Regulatory Guide 1.133. This report will contain the setpoints required to restore the channel to functionality. It is expected that the system will be restored to functionality by July 5, 2018.