



Callaway Plant

November 8, 2017

ULNRC-06398

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

Ladies and Gentlemen:

**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
RENEWED FACILITY OPERATING LICENSE NPF-30
SPECIAL REPORT 2017-02:
NON-FUNCTIONAL SEISMIC INSTRUMENT FOR GREATER THAN 30 DAYS**

Enclosed is a special report addressing a non-functional seismic monitoring instrument at the Callaway Plant.

This letter does not contain new commitments, and none of the material in this report is considered proprietary by Union Electric Company (Ameren Missouri).

If you have any questions or require additional information, please contact Mr. Thomas Elwood, Supervising Engineer, Regulatory Affairs and Licensing at 314-225-1905.

Sincerely,

A handwritten signature in blue ink, appearing to read "Barry L. Cox".

Barry L. Cox
Senior Director, Nuclear Operations

Enclosure

- 1) Special Report 2017-02

cc: Mr. Kriss M. Kennedy
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Special Report 2017-02

Requirement

Callaway Plant's Final Safety Analysis Report (FSAR) Section 16.3.3.2 contains requirements for seismic instrumentation. The Limiting Condition for Operation (LCO) specified per FSAR 16.3.3.2 requires seismic monitoring instrumentation to be Functional at all times. With a required instrument non-functional for more than 30 days, Action A applies. It states, "With one or more of the above required seismic monitoring instruments 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 instrument(s) to FUNCTIONAL status."

Cause of the Non-functional Seismic Monitoring Instrument

Seismic instrument SGAR0008, 'C' Steam Generator Support Peak Recording Accelerometer, was removed from service on 10/07/2017 for a routine surveillance and calibration. Since this instrument is located near the Containment Equipment Hatch entrance, it was determined that reinstallation should occur near the end of the current refueling outage (12/2017). It is Callaway Plant's practice to remove SGAR0008 from service during a refueling outage to prevent potential false recordings due to heavy work performed near the seismic instrument.

Associated seismic instrumentation SGAR0005, Containment Structure Peak Recording Accelerometer, and SGAR0007, 'B' Steam Generator Piping Peak Recording Accelerometer, provide an alternate means for monitoring during a seismic event. These instruments ensure that sufficient capability is available to promptly determine the magnitude of a seismic event and evaluate the response of those features important to safety (thus to determine if plant shutdown is required pursuant to Appendix A of 10 CFR Part 100).

Plans for Restoring the Instrument to FUNCTIONAL status

SGAR0008 was removed from service for calibration and to prevent false recordings which can occur during a refueling outage. As noted above, SGAR0008 will be returned to service near the end of the current refueling outage.