



October 13, 2016

ULNRC-06334

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

10 CFR 50.54 (f)

Ladies and Gentlemen:

**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
RENEWED FACILITY OPERATING LICENSE NPF-30
SUPPLEMENT TO EXPEDITED SEISMIC EVALUATION PROCESS REPORT**

References:

1. NRC Letter, "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," dated March 12, 2012 (ADAMS Accession No. ML12053A340)
2. ULNRC-06161, "Ameren Missouri Response to NRC Request for Information Pursuant To 10 CFR 50.54(f) regarding The Seismic Aspects of Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident – Expedited Seismic Evaluation Process Report," dated December 22, 2014
3. ULNRC-06239, "Supplement to Expedited Seismic Evaluation Process Report," dated September 9, 2015
4. ULNRC-06291, "Supplement to Expedited Seismic Evaluation Process Report," dated July 06, 2016
5. EPRI TR-3002000704, "Seismic Evaluation Guidance: Augmented Approach for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1 — Seismic", dated May 2013 (ADAMS Accession No. ML13102A142)

On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued a 50.54(f) letter to all power reactor licensees and holders of construction permits in active or deferred status. Enclosure 1 of Reference 1 requested each addressee located in the Central and Eastern United States (CEUS) to

submit a Seismic Hazard Evaluation and Screening Report within 1.5 years from the date of Reference 1. In accordance with the NRC-endorsed guidance in Reference 5, the Expedited Seismic Evaluation Process (ESEP) Report for Callaway Plant was provided under Reference 2.

On July 16, 2015, a teleconference between Ameren Missouri and NRC staff was conducted, and at that time, it was determined that additional components needed to be added to Callaway's Expedited Seismic Evaluation List (ESEL). Reference 3 served as a near term supplement to Reference 2, identifying the additional components added to the ESEL. Reference 4 transmitted the results of the completed walkdowns and engineering analysis for the added components.

All equipment evaluated for the ESEP for Callaway Plant was found to have adequate capacity for the required seismic demand as defined by the Augmented Approach (ESEP) guidance (Reference 5), with the exception of certain relays located in Motor Control Centers (MCCs) NG03C and NG04C, the Condensate Storage Tank (CST), and the Refueling Water Storage Tank (RWST). The MCC relays were addressed with a procedure change (FLEX Support Guideline revised). To address the CST, a new Hardened Condensate Storage Tank was constructed and put into service in May 2016. For the RWST, additional evaluation was required, as summarized below.

To address seismic capability concerns for the RWST, a seismic capability analysis was performed in which a High-Confidence-of-a-Low-Probability-of-Failure (HCLPF) value was calculated and compared to the Ground Motion Response Spectrum (GMRS). The calculated RWST HCLPF value (0.498g) was found to exceed the GMRS value (0.39g). Since the seismic capacity of the RWST is in excess of the GMRS, it is concluded that the Callaway RWST meets the requirements of the ESEP.

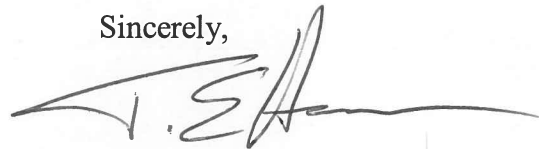
This letter serves to document closeout to Callaway Plant's ESEP regulatory commitments. No additional plant modifications are required as a result of ESEP, and no new commitments are identified.

Should you have any questions concerning the content of this letter, please contact Mr. Tom Elwood, Regulatory Affairs Supervisor, at (314) 225-1905.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on: 10/13/2016

Sincerely,



Timothy E. Herrmann
Site Vice President

EMP

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