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March 28, 2014

ULNRC-06102

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.
FACILITY OPERATING LICENSE NPF-30
AMEREN MISSOURI SEISMIC HAZARD AND SCREENING (CEUS SITES) RESPONSE
TO NRC REQUEST FOR INFORMATION PURSUANT TO 10 CFR 50.54(f) REGARDING
RECOMMENDATION 2.1 OF THE NEAR-TERM TASK FORCE REVIEW OF INSIGHTS
FROM THE FUKUSHIMA DAI-ICHI ACCIDENT**

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
2. NEI Letter, "Proposed Path Forward for NTTF Recommendation 2.1: Seismic Re-evaluations," dated April 9, 2013, ADAMS Accession No. ML13101A379
3. NRC Letter, "Electric Power Research Institute Final Draft Report, "Seismic Evaluation Guidance: Augmented Approach for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic, as an Acceptable Alternative to the March 12, 2012, Information Request for Seismic Reevaluations," dated May 7, 2013, ADAMS Accession No. ML13106A331
4. ULNRC-06030, "Ameren Missouri Response to NRC Request for Information Pursuant to 10CFR50.54(f) Regarding the Seismic Aspects of Recommendation 2.1 of the Near-Term Task Force Review of Insights From the Fukushima Dai-ichi Accident – 1.5 Year Responses for CEUS Sites," dated September 12, 2013

5. ULNRC-06095, "Correction to Ameren Missouri Response to NRC Request for Information Pursuant to 10CFR50.54(f) Regarding the Seismic Aspects of Recommendation 2.1 of the Near-Term Task Force Review of Insights From the Fukushima Dai-ichi Accident – 1.5 Year Responses for CEUS Sites," dated March 04, 2014
6. EPRI Report 1025287, "Seismic Evaluation Guidance, Screening, Prioritization and Implementation Details (SPID) for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic," ADAMS Accession No. ML12333A170
7. NRC Letter, "Endorsement of EPRI Final Draft Report 1025287, Seismic Evaluation Guidance," dated February 15, 2013, ADAMS Accession No. ML12319A074

On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued Reference 1 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 Reference 2, the Nuclear Energy Institute (NEI) requested NRC agreement to delay submittal of the final CEUS Seismic Hazard Evaluation and Screening Reports so that an update to the Electric Power Research Institute (EPRI) ground motion attenuation model could be completed and used to develop that information. NEI proposed that descriptions of subsurface materials and properties and base case velocity profiles be submitted to the NRC by September 12, 2013, with the remaining seismic hazard and screening information submitted by March 31, 2014. NRC agreed with that proposed path forward in Reference 3. In Reference 4, Ameren Missouri provided the description of subsurface materials and properties and base case velocity profiles for Callaway Plant. Reference 5 noted an error in the Reference 4 report regarding the Safe Shutdown Earthquake (SSE) control point used for the Callaway Plant. The corrected SSE control point, updated base case velocity profiles and Ground Motion Response Spectra (GMRS) curves are provided in this submittal (as well as the remaining seismic hazard and screening information).

Reference 6 contains industry guidance and detailed information to be included in the Seismic Hazard Evaluation and Screening Report submittals. The NRC endorsed this industry guidance in Reference 7. The enclosure to this letter is the Seismic Hazard and Screening Report for Callaway Plant based on the NRC endorsed guidance (Section 4 of Reference 6) and schedule (identified in Reference 2).

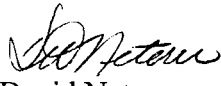
Based on the results of the screening evaluation provided in Section 4 of Enclosure 1, Callaway Plant screens in for a risk evaluation, a spent fuel pool evaluation, and a high frequency confirmation (relay chatter evaluation). In addition, Callaway Plant will implement the Expedited Seismic Evaluation Process (ESEP) as proposed by NEI in Reference 2 and endorsed by the NRC in Reference 3.

This letter contains new regulatory commitments which are provided on page 6. If you have any questions regarding this report, please contact Scott Maglio, Manager, Regulatory Affairs, at 573-676-8719.

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

Sincerely,

Executed on: 3-28-2014


David Neterer
Vice President, Engineering

Enclosure: Seismic Hazard and Screening Report for Callaway Energy Center

cc: Mr. Marc L. Dapas
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LIST OF COMMITMENTS

The following table identifies those actions committed to by Ameren Missouri in this document. Any other statements in this document are provided for information purposes and are not considered commitments. Please direct questions regarding these commitments to:

COMMITMENT	Due Date/Event	COMN
Ameren Missouri will submit the Expedited Seismic Evaluation Process (ESEP) report for Callaway Plant using the guidance in NEI Letter, "Proposed Path Forward for NTTF Recommendation 2.1" (ADAMS Accession No. ML13101A379).	12/31/2014	50393
Ameren Missouri will perform a Spent Fuel Pool (SFP) evaluation for Callaway Plant using the guidance in EPRI Report 1025287 (ADAMS Accession No. ML12333A170) which is endorsed by the NRC (ADAMS Accession No ML12319A074).	As determined by NRC prioritization following submittal of all nuclear power plant Seismic Hazard Re-evaluations.	50394
Ameren Missouri will perform a Risk Evaluation.	As determined by NRC prioritization following submittal of all nuclear power plant Seismic Hazard Re-evaluations.	50395
Ameren Missouri will perform a High Frequency Confirmation (Relay Chatter Evaluation).	As determined by NRC prioritization following submittal of all nuclear power plant Seismic Hazard Re-evaluations.	50396