



**David W. Neterer**  
Vice President - Nuclear Operations  
Ameren Missouri  
Callaway Energy Center  
C 573.544.5402  
F 573.676.4056  
dneterer@ameren.com

December 22, 2014

ULNRC-06161

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 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 – 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. NEI Letter to NRC, Proposed Path Forward for NTTF Recommendation 2.1: Seismic Reevaluations, dated April 9, 2013 (ADAMS Accession No. ML13101A379)
  3. NRC Letter, Electric Power Research Institute Report 3002000704, “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)

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 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.

Reference 1 requested that licensees provide interim evaluations and actions taken or planned to address the higher seismic hazard relative to the design basis, as appropriate, prior to completion of the risk evaluation. In accordance with the NRC endorsed guidance in Reference 3, the attached Expedited Seismic Evaluation Process Report for Callaway Plant (Enclosure 2) provides the information described in Section 7 of Reference 3 in accordance with the schedule identified in Reference 2.

Enclosure 1 to this letter contains regulatory commitments.

Should you have any questions concerning the content of this letter, please contact Scott Maglio, Regulatory Affairs Manager, at 573-676-8719.

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

Sincerely,

Executed on: 12-22-2014



David W. Neterer  
Vice President, Nuclear Operations

EMP

Enclosures:

- 1: List of Commitments
- 2: Expedited Seismic Evaluation Process (ESEP) Report

cc: Mr. Marc L. Dapas  
Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region IV  
1600 East Lamar Boulevard  
Arlington, TX 76011-4511

Senior Resident Inspector  
Callaway Resident Office  
U.S. Nuclear Regulatory Commission  
8201 NRC Road  
Steedman, MO 65077

Mr. Fred Lyon  
Project Manager, Callaway Plant  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Mail Stop O-8B1  
Washington, DC 20555-2738

Mr. Eric Leeds  
Director, Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Mail Stop O-13H16M  
Washington, DC 20555-0001

Mr. Jack Davis  
Director, Mitigation Strategies Directorate  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

**Index and send hardcopy to QA File A160.0761**

**Hardcopy:**

Certrec Corporation  
4150 International Plaza Suite 820  
Fort Worth, TX 76109  
(Certrec receives ALL attachments as long as they are non-safeguards and may be publicly disclosed.)

**Electronic distribution for the following can be made via Responses and Reports ULNRC Distribution:**

F. M. Diya  
D. W. Neterer  
L. H. Graessle  
T. E. Herrmann  
B. L. Cox  
S. A. Maglio  
T. B. Elwood  
M. A. McLachlan  
J. T. Patterson  
J. L. Fortman  
A. N. Mauer (Nuclear Energy Institute)  
Corporate Communications  
NSRB Secretary  
STARS Regulatory Affairs  
Mr. John O'Neill (Pillsbury Winthrop Shaw Pittman LLP)

**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 Scott Maglio, Regulatory Affairs Manager, at 573-676-8719:

<b>COMMITMENT</b>	<b>Due Date/Event</b>	<b>COMN</b>
Modify FLEX Support Guidelines to include operator actions to reset relays in Motor Control Centers NG03C and NG04C with HCLPF values less than the RLGM.	December 31, 2016	<b>50400</b>
Install a new "hardened" Condensate Storage Tank (CST)	End of RF21, Spring 2016	<b>50401</b>
To address the Refueling Water Storage Tank (RWST), the following three tiered response will be performed as needed: 1) Re-evaluate FLEX response strategies to eliminate the need for the tank to be robust against all external hazards. 2) Re-analyze the tank based on the new GMRS used for the Seismic PRA. 3) Upgrade/replace the tank.	No later than the end of the second refueling outage after 12/31/14, currently RF22 scheduled for Fall 2017	<b>50402</b>

HCLPF = high confidence of a low probability of failure

RLGM = review level ground motion