



December 8, 2022

ULNRC-06787

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

10 CFR 50.90

Ladies and Gentlemen:

**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
RENEWED FACILITY OPERATING LICENSE NPF-30
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION REGARDING
LICENSE AMENDMENT REQUEST FOR ADOPTION OF
ALTERNATE SOURCE TERM AND REVISION OF
TECHNICAL SPECIFICATIONS (LDCN 21-0015)**

On September 28, 2021, and per Reference 1 included in the list of references on page 3 of this letter, Ameren Missouri submitted a license amendment request (LAR) for adopting the alternative source term methodology addressed in 10 CFR 50.67 and Regulatory Guide 1.183, Rev 0, "Alternative Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Reactors."

Following several letters related to the NRC's acceptance review of the LAR (including LAR supplements submitted by Ameren Missouri), a request for additional information (RAI) was electronically received (via e-mail) from the NRC on October 14, 2022 (Reference 3). The RAI identified discrepancies between the results obtained from the NRC staff's confirmatory runs of its ARCON2 dispersion model and those provided by Ameren Missouri and its contractor (in the Reference 1 LAR and the letter identified as Reference 2 on page 3) using the ARCON96-NAI model. Those discrepancies have now been addressed.

This letter is submitted to provide corrected results to the NRC staff and respond to the staff's requests for additional information contained in the Reference 3 letter.

In accordance with 10 CFR 50.91, "Notice for public comment; State consultation," Section (b)(1), a copy of this supplement to the Reference 1 LAR is being provided to the designated Missouri State official. This supplement was reviewed by the Callaway Plant Onsite Review Committee.

This letter does not contain new commitments.

If there are any questions, please contact Mr. Tom Elwood at 314-225-1905.

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

Sincerely,



Todd A. Witt
Manager, Regulatory Affairs

Executed on: 12-8-22

Enclosure: Ameren Missouri Response to NRC RAIs



References:

1. Ameren Missouri letter ULNRC-06636, "License Amendment Request for Adoption of Alternate Source Term and Revision of Technical Specifications," dated September 28, 2021 (ADAMS Accession No. ML21272A168)
2. Ameren Missouri letter ULNRC-06696, "Supplement to License Amendment Request for Adoption of Alternative Source Term and Revision of Technical Specifications," dated December 1, 2021 (ADAMS Accession No. ML21335A452)
3. NRC letter, "Final Request for Additional Information - Callaway Plant, Unit 1 - License Amendment Request for Adoption of Alternate Source Term and Revision of Technical Specifications - EPID L-2021-LLA-0177," transmitted via e-mail on October 14, 2022 (ADAMS Accession No. ML22287A095)

cc: Mr. Scott A. Morris
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