



January 16, 2014

ULNRC-06072

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

10 CFR 2.101
10 CFR 2.109(b)
10 CFR 50.4
10 CFR 50.30
10 CFR 51.53(c)
10 CFR 54

Ladies and Gentlemen:

**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
FACILITY OPERATING LICENSE NPF-30
RESPONSE TO RAI SET #29, RAI SET #27 (RAI B2.1.6-4b), AND
AMENDMENT 29 TO THE CALLAWAY LRA**

- References:
- 1) ULNRC-05830 dated December 15, 2011
 - 2) NRC Letter, "Request for Additional Information for the Review of the Callaway Plant, Unit 1, License Renewal Application, Set 29 (TAC No. ME7708)," dated December 2, 2013
 - 3) NRC Letter "Request for Additional Information for the Review of the Callaway Plant, Unit 1, License Renewal Application, Set 27 (TAC No. ME7708)," dated September 20, 2013
 - 4) ULNRC-06050 dated October 17, 2013
 - 5) NRC Letter, "Safety Evaluation Report with Open Items Related to the License Renewal of Callaway Plant, Unit 1 (TAC No. ME7708)," dated April 23, 2013

By the Reference 1 letter, Union Electric Company (Ameren Missouri) submitted a license renewal application (LRA) for Callaway Plant Unit 1. Reference 2 dated December 2, 2013 transmitted the twenty-ninth Request for Additional Information (RAI) related to our application.

Enclosure 1 contains Ameren Missouri's response to the individual requests contained in the December 2, 2013 letter. The response to RAI 2.1.6-4d addresses the portion of the request related to Atypical Fuel Design. Additional information in the form of a commitment, related to the portion of the request for reactor vessel internals cold worked material will be provided by February 28, 2014.

Enclosure 1 also includes a response to RAI B2.1.6-4b. This RAI was originally transmitted by RAI Set #27 (Reference 3). Reference 4 provided a Response to RAI Set #27, but indicated additional time would be needed to respond to this item and it would be provided on a schedule agreed to by NRC project management.

Enclosure 2 contains LRA Amendment 29 to reflect changes made as a result of the RAI responses.

It should be noted that one modified commitment (Item 5) and one new commitment (Item 43) are included in Amendment 29, Table A4-1.

The responses and LRA Amendment 29 provide information intended to assist the staff in partially closing Open Item B2.1.6-1 identified in Reference 5.

If you have any questions with regard to this RAI response, or Amendment 29, please contact me at (573) 489-9435 or Mr. Roger Wink at (314) 225-1561.

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

Sincerely,



Executed on: January 16, 2014

Sarah Kovaleski
Director, Engineering Design

DS/

Enclosures: 1) Responses to Request for Additional Information (RAI) Sets #29
and #27 (RAI B2.1.6- 4b)
2) Amendment 29, LRA Changes

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