



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

May 13, 2013

Mr. Adam C. Heflin  
Senior Vice President and  
Chief Nuclear Officer  
Union Electric Company  
P.O. Box 620  
Fulton, MO 65251

SUBJECT: CALLAWAY PLANT, UNIT 1 – REQUEST FOR ADDITIONAL INFORMATION  
RE: PROPOSED REVISION TO TECHNICAL SPECIFICATION 3.7.9,  
“ULTIMATE HEAT SINK (UHS)” (TAC NO. MF0378)

Dear Mr. Heflin:

By application dated December 13, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12349A321), to the U.S. Nuclear Regulatory Commission (NRC), Union Electric Company (dba Ameren Missouri, the licensee) submitted a license amendment request to incorporate more restrictive ultimate heat sink (UHS) level and pond temperature limits, which are specified in Surveillance Requirements (SRs) 3.7.9.1 and 3.7.9.2, respectively. In addition, new SR 3.7.9.4 would be added to verify that the UHS cooling tower fans respond appropriately to automatic start signals.

The NRC staff has determined that additional information, as requested in the enclosure, is needed to complete its review. Please provide a response to the questions within 30 days of the date of this letter. If circumstances result in the need to revise the requested response date, please contact me at 301-415-2296 or via e-mail at [Fred.Lyon@nrc.gov](mailto:Fred.Lyon@nrc.gov).

Sincerely,

*for* 

Carl F. Lyon, Project Manager  
Plant Licensing Branch IV  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-483

Enclosure:  
As stated

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

LICENSE AMENDMENT REQUEST TO REVISE TS 3.7.9

UNION ELECTRIC COMPANY

CALLAWAY PLANT, UNIT 1

DOCKET NO. 50-483

By application dated December 13, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12349A321), to the U.S. Nuclear Regulatory Commission (NRC), Union Electric Company (dba Ameren Missouri, the licensee) submitted a license amendment request to incorporate more restrictive ultimate heat sink (UHS) level and pond temperature limits which are specified in Surveillance Requirements (SRs) 3.7.9.1 and 3.7.9.2, respectively. In addition, new SR 3.7.9.4 would be added to verify that the UHS cooling tower fans respond appropriately to automatic start signals.

The NRC staff has determined that the additional information requested below is needed to complete its review.

1. The licensee stated on page 4 of the application that the UHS minimum water depth of 831.25 feet, as stated in the Callaway Safety Evaluation Report (SER), NUREG-0830, Supplement 4, Section 2.4.4, was previously accepted by the staff in 1984. However, due to the licensee's reassessment of the UHS based upon its National Pollutant Discharge Elimination System (NPDES) Permit, the licensee now proposes to increase the UHS minimum water depth to 834 feet.

Please provide justification for the reassessment of the UHS minimum water level from 831.25 feet to 834 feet, since it is not sufficiently described in the application. Describe any physical changes to the UHS design analysis methodology or operation that would allow the calculation of the UHS freeboard to show that UHS discharge at nearly 835.83 feet is now negligible.

Enclosure

May 13, 2013

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Sincerely,

/RA by N. Kalyanam for/

Carl F. Lyon, Project Manager  
Plant Licensing Branch IV  
Division of Operating Reactor Licensing  
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As stated

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ADAMS Accession No.: ML13129A333

\*email dated

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