



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

May 13, 2011

Mr. Brian J. O'Grady
Vice President-Nuclear and CNO
Nebraska Public Power District
72676 648A Avenue
Brownville, NE 68321

SUBJECT: COOPER NUCLEAR STATION - REQUEST FOR ADDITIONAL INFORMATION
RE: NON-CONSERVATIVE BATTERY TERMINAL VOLTAGE AND SPECIFIC
GRAVITY IN TECHNICAL SPECIFICATION SURVEILLANCE REQUIREMENTS
(TAC NO. ME4974)

Dear Mr. O'Grady:

By letter dated October 29, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML103080079), Nebraska Public Power District requested an amendment to Facility Operating License No. DPR-46 for Cooper Nuclear Station (CNS), and Appendix A, Technical Specifications (TSs), of the facility operating license. The proposed changes would revise the battery acceptance criteria in CNS's TS Surveillance Requirement (SR) 3.8.4.1 and TS Table 3.8.6-1. Specifically, the proposed license amendment request would revise the acceptance criteria in the CNS TS SR 3.8.4.1 and TS Table 3.8.6-1 by revising the battery terminal voltage while on float charge and specific gravity acceptance criteria to ensure that the Division I and II safety-related batteries can perform their safety functions and will remain operable during postulated design basis events.

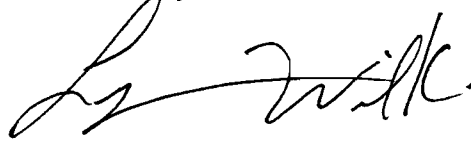
The U.S. Nuclear Regulatory Commission staff has reviewed your submittal and determined that the information specified in the enclosed request for additional information (RAI) is needed for the staff to complete its evaluation. The RAI was discussed with Mr. McCutchen and others of your staff on April 8, 2011. Mr. McCutchen indicated that the response would be provided within 30 days of receipt of this letter.

B. O'Grady

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If you have any questions, please contact me at 301-415-1377 or via e-mail at Lynnea.wilkins@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Lynnea E. Wilkins". The signature is fluid and cursive, with a large initial "L" and a long horizontal stroke.

Lynnea E. Wilkins, Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-298

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

DOCKET NO. 50-298

By letter dated October 29, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML103080079), Nebraska Public Power District requested an amendment to Facility Operating License No. DPR-46 for Cooper Nuclear Station (CNS), and Appendix A, Technical Specifications (TSs), of the facility operating license. The proposed changes would revise the battery acceptance criteria in CNS's TS Surveillance Requirement (SR) 3.8.4.1 and TS Table 3.8.6-1. Specifically, the proposed license amendment request (LAR) would revise the acceptance criteria in the CNS TS SR 3.8.4.1 and TS Table 3.8.6-1 by revising the battery terminal voltage while on float charge and specific gravity acceptance criteria to ensure that the Division I and II safety-related batteries can perform their safety functions and will remain operable during postulated design basis events.

The NRC staff has reviewed and evaluated the information provided by the licensee and has determined that the following information is needed in order to complete its review of the relief request.

The following request for additional information pertains to the proposed changes to the direct current (DC) battery terminal voltage while on float charge and specific gravity acceptance values in the TS SR 3.8.4.1 and TS Table 3.8.6-1:

1. In its LAR, the licensee proposed revising the battery terminal voltage acceptance criteria for the Division I and II safety-related batteries. However, the associated battery charger output voltage acceptance criteria in TS SR 3.8.4.6 were not proposed to be revised. Please provide justification for not proposing a revision to the corresponding TS SR 3.8.4.6 for the battery charger.
2. Please describe how the manufacturer quantified a capacity of 96 percent of rated from an average specific gravity of 1.205.
3. Please provide the technical justification for the proposed Category B specific gravity limit of 1.200.
4. Please state if CNS is using a nuclear qualified version of electrical power systems design, simulation, and analytic software.
5. Please provide a summary of the analysis that shows how CNS found that the DC systems were capable of meeting requirements for safe shutdown and for maintaining the plant in a safe shutdown mode as well as meeting the requirements for station blackout and Appendix R of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50.

Enclosure

B. O'Grady

- 2 -

If you have any questions, please contact me at 301-415-1377 or via e-mail at Lynnea.wilkins@nrc.gov.

Sincerely,

/RA/

Lynnea E. Wilkins, Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-298

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Request for Additional Information

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ADAMS Accession No.: ML111320511

*via memo dated

OFFICE	NRR/LPL4/PM	NRR/LPL4/LA	NRR/DE/EEEEB/BC	NRR/LPL4/BC	NRR/LPL4/PM
NAME	LWilkins	JBurkhardt	RMathew*	MMarkley	LWilkins
DATE	5/13/11	5/13/11	3/11/2011	5/13/11	5/13/11

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