



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

March 8, 2013

Mr. Oscar A. Limpas
Vice President-Nuclear and CNO
Nebraska Public Power District
72676 648A Avenue
Brownville, NE 68321

SUBJECT: COOPER NUCLEAR STATION - REQUEST FOR ADDITIONAL INFORMATION
RE: LICENSE AMENDMENT REQUEST TO REVISE THE FUEL HANDLING
ACCIDENT DOSE ASSESSMENT (TAC NO. ME8992)

Dear Mr. Limpas:

By application dated June 25, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML121850025), Nebraska Public Power District requested a license amendment to revise the licensing and design basis as documented in the Cooper Nuclear Station Updated Safety Analysis Report to reflect changes to the Fuel Handling Accident dose assessment.

The Nuclear Regulatory Commission (NRC) staff has reviewed the information provided in the application and determined that additional information is required in order to complete the review and approval of the changes. The questions were provided to Mr. E. McCutchen of your staff by e-mail on February 22, 2013. Mr. McCutchen replied via email on February 25, 2013, stating that a clarifying call was not needed and that a response would be provided for the enclosed request for additional information (RAI) within 30 days of the date of this letter.

The NRC staff considers that timely responses to requests for additional information help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of NRC staff resources. If circumstances result in the need to revise the requested response date, 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 Wilkins", is written over a horizontal line.

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
LICENSE AMENDMENT REQUEST FOR REVISIONS TO THE
FUEL HANDLING ACCIDENT DOSE ASSESSMENT
COOPER NUCLEAR STATION
DOCKET NO. 50-298

By application dated June 25, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML121850025), Nebraska Public Power District (NPPD), requested a license amendment to revise the licensing and design basis as documented in the Cooper Nuclear Station (CNS) Updated Safety Analysis Report to reflect changes to the Fuel Handling Accident (FHA) dose assessment. Section 2.5, "Atmospheric Dispersion (χ/Q) Factors," of Attachment 4 to the application states, in part, that:

The χ/Q values are taken from existing CNS calculations developed specifically for various Control Room Intake, Exclusion Area Boundary (EAB), and Low Population Zone (LPZ) receptor points for use in the development of the bounding Design Basis Accidents (DBA) Radiological Analysis. These receptor locations were previously determine to be the most limiting in determining compliance with the dose criteria established.

The control room intake χ/Q values were taken from reference 23 for a release emanating from the Reactor Building. The reactor building vent release case was analyzed as a ground release for three release rates through the reactor building vent. The lowest release flow which coincides with the highest χ/Q values was chosen for the most conservative approach. ... The EAB and LPZ Atmospheric Dispersion χ/Q values were taken from reference 25 for a ground release emanating from the Reactor Building.

Section 2.5 cites the "lowest release flow" and references 23 and 25, which are both dated September 23, 2009. Please confirm that this lowest flow is 1780 cubic feet per minute and that there are not any changes in the FHA release scenario (e.g., changes in potential source/receptor locations, changes in flow rates, etc.) which would alter the NPPD χ/Q assessment in support of Amendment No. 222, dated September 5, 2006 (ADAMS Accession No. ML062260239).

Enclosure

March 8, 2013

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Vice President-Nuclear and CNO
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Sincerely,
/RA/

Lynnea E. Wilkins, Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
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ADAMS Accession No.: ML13059A345

*memo dated

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