

Lent, Susan

From: Wilkins, Lynnea
Sent: Friday, February 22, 2013 1:29 PM
To: McCutchen, Edward L.
Cc: Lent, Susan; Burkhardt, Janet
Subject: DRAFT: RAIs for Cooper Nuclear Station Re: Fuel Handling Accident Dose Assessment (ME8992)
Attachments: ME8992 RAIs Email.docx

Ed,

By application dated June 25, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML121850025), Nebraska Public Power District (NPPD), requested an amendment to Facility Operating License DPR-46 under the provisions of 10 CFR 50.4 and 10 CFR 50.90 to revise the Cooper Nuclear Station (CNS) Updated Safety Analysis Report to reflect changes to the Fuel Handling Accident (FHA) dose assessment.

The NRC staff has determined that additional information specified in the attached Request for Additional Information (RAI) is needed for the staff to complete its evaluation. Please contact me if a clarifying teleconference is needed for the attached RAI.

Thanks
Lynnea

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REQUEST FOR ADDITIONAL INFORMATION
LICENSE AMENDMENT REQUEST FOR REVISIONS TO THE
FUEL HANDLING ACCIDENT DOSE ASSESSMENT
TAC NO. ME8992

By application dated June 25, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML121850025), Nebraska Public Power District (NPPD), requested an amendment to Facility Operating License DPR-46 under the provisions of 10 CFR 50.4 and 10 CFR 50.90 to revise 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:

"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 CNS Amendment 222 dated September 5, 2006 (ADAMS Accession Number ML062260239).

ENCLOSURE