

January 9, 2007

Mr. Randall K. Edington
Vice President-Nuclear Energy
and Chief Nuclear Officer
Nebraska Public Power District
72676 648A Avenue
Brownville, NE 68321

SUBJECT: COOPER NUCLEAR STATION - REQUEST FOR ADDITIONAL INFORMATION
RE: LICENSE AMENDMENT REQUEST FOR SPENT FUEL POOL STORAGE
CAPACITY (TAC NO. MD3349)

Dear Mr. Edington:

By letter dated October 17, 2006, Nebraska Public Power District (the licensee) submitted the license amendment request for changes to the Cooper Nuclear Station Technical Specifications (TS) 4.3.1.1.c and TS 4.3.3 to increase the capacity of the spent fuel storage pool.

The Nuclear Regulatory Commission staff from the Boiling Water Reactor Systems Branch has reviewed the information provided in the submittal and determined that additional information is required in order to complete the review and approve the changes. As agreed upon in the telephone call on December 7, 2006, the licensee will respond to the request for additional information (RAI) within 30 days from the date of this letter. The RAI is enclosed.

Sincerely,

/RA D. Terao for/

Bhalchandra K. Vaidya, 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: See next page

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REQUEST FOR ADDITIONAL INFORMATION

ISSUES RELATED TO SPENT FUEL POOL STORAGE CAPACITY

COOPER NUCLEAR STATION

DOCKET NO. 50-298

1. The Nuclear Regulatory Commission staff requests the licensee to provide the following information that is applicable for the Cooper Nuclear Station Spent Fuel Pool (SFP) expansion for the fuel assemblies expected to be discharged in the future:
 - a) The types of fuel assemblies to be stored.
 - b) Uniform average enrichment.
 - c) Discharge fuel burnup (MWD/KgU).
 - d) Wt.% of Gd_2O_3 (Gadolinia burnable poison) and the number of fuel rods that contain the Gadolinia.
 - e) The highest actual or calculated value for neutron multiplication factor (K_{eff}) with the racks fully loaded with fuel of the highest anticipated reactivity and pool flooded with unborated water at a temperature corresponding to the highest reactivity.
 - f) The highest actual or calculated value for K-infinity.
2. Please confirm that each of the limiting criteria for acceptable storage, as listed in Table 4-3 of Enclosure 1 of the submittal, are satisfied in the SFP expansion. If any of the criteria are not satisfied, then identify it and provide justification for acceptability.

Cooper Nuclear Station

cc:

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Cooper Nuclear Station

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cc:

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December 2006