October 4, 2006

Mr. R. T. Ridenoure
Vice President - Chief Nuclear Officer
Omaha Public Power District
Fort Calhoun Station FC-2-4 Adm.
Post Office Box 550
Fort Calhoun, NE 68023-0550

SUBJECT: FORT CALHOUN STATION, UNIT NO. 1: REQUEST FOR ADDITIONAL INFORMATION RELATED TO THE REPLACEMENT OF TRISODIUM PHOSPHATE (TAC NO. MD2864)

Dear Mr. Ridenoure**:**

By letter dated August 21, 2006, Omaha Public Power District (OPPD) submitted an amendment request to revise the Fort Calhoun Station, Unit No. 1, Technical Specification Section 2.3(4), "Trisodium Phosphate (TSP)." The proposed change will replace the reactor containment building sump buffering agent from TSP to sodium tetraborate.

The U.S. Nuclear Regulatory Commission staff has reviewed OPPD's submittal and has determined that additional information is needed to complete our review. A request for additional information (RAI) is enclosed. This request was discussed with Thomas Matthews of your staff on October 2, 2006, and it was agreed that a response would be provided within 7 days of receipt of this letter.

If you have any questions, please contact me at (301) 415-1445.

Sincerely,

/RA/

Alan B. Wang, Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-285

Enclosure: RAI

cc w/encl: See next page

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REQUEST FOR ADDITIONAL INFORMATION

REGARDING CORE OPERATING LIMITS REPORT REFERENCES

OMAHA PUBLIC POWER DISTRICT

FORT CALHOUN STATION, UNIT NO. 1

DOCKET NUMBER 50-285

By letter dated August 21, 2006, Omaha Public Power District (OPPD) submitted an amendment request to revise the Fort Calhoun Station, Unit No. 1 (FCS), Technical Specification Section 2.3(4), "Trisodium Phosphate (TSP)." The proposed change will replace the reactor containment building sump buffering agent from TSP to sodium tetraborate. The NRC staff has reviewed OPPD's submittal and has determined that the following additional information is needed to complete our review.

1. Provide an electronic copy of the Pressurized-Water Reactor (PWR) Owners Group (PWROG) chemical model spreadsheet for FCS that shows the precipitates formed with the TSP buffer and the sodium tetraborate buffer.

2. Page 3 of 8 of the summary report, "Testing of Alternate Buffering Agents for Fort Calhoun Station," indicates that the corrosion rate of aluminum in solution buffered with sodium tetraborate is significantly higher than the corrosion rate in solution buffered with TSP. Table 1 in the summary report provides the PWROG chemical model predictions that show an equal amount of $NaAlSi_3O_8$ precipitate is predicted at FCS with sodium tetraborate and TSP buffered environments. Discuss why the predicted amount of aluminum-based precipitate is equal in these environments when the amount of dissolved aluminum in the containment pool would presumably be much greater with sodium tetraborate.

Ft. Calhoun Station, Unit 1

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