

UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

February 24, 1994

Docket No. 50-298

Mr. Guy R. Horn Vice-President, Nuclear Nebraska Public Power District Post Office Box 98 Brownville, Nebraska 68321

Dear Mr. Horn:

SUBJECT: GENERIC LETTER 89-10, SUPPLEMENT 5, "INACCURACY OF MOTOR-OPERATED VALVE DIAGNOSTIC EQUIPMENT" - COOPER NUCLEAR STATION (TAC NO. M87938)

On June 28, 1993, the NRC staff issued Supplement 5, "Inaccuracy of Motor-Operated Valve Diagnostic Equipment," to Generic Letter (GL) 89-10, "Safety-Related Motor-Operated Valve Testing and Surveillance," requesting nuclear power plant licensees and construction permit holders (1) to re-examine their motor-operated valve (MOV) programs and to identify measures taken to account for uncertainties in properly setting valve operating thrust to ensure operability, and (2) to evaluate the schedule necessary to consider the new information on MOV diagnostic equipment inaccuracy and to take appropriate action in response to that information. Within 90 days of receipt of Supplement 5 to GL 89-10, licensees were required (1) to notify the NRC staff of the diagnostic equipment used to confirm the proper size, or to establish settings, for safety-related MOVs, and (2) to report whether they had taken actions or planned to take actions (including schedule) to address the new information on the accuracy of MOV diagnostic equipment.

The staff has reviewed the responses, and has found that, for the most part, licensees and permit holders have been actively addressing the uncertainties regarding the accuracy of MOV diagnostic equipment. The increased inaccuracy of MOV diagnostic equipment can raise questions regarding (1) the adequacy of torque switch settings to provide sufficient thrust while not exceeding thrust or torque structural limits and (2) the capability of actuator motors at current settings. In their responses, licensees and permit holders indicated that many MOVs had the potential for underthrusting or overthrusting as a result of the higher than expected inaccuracy of MOV diagnostic equipment. Consequently, some licensees reported that MOVs have been retested, adjusted, or modified to resolve the concerns regarding the accuracy of MOV diagnostic equipment.

You responded to Supplement 5 by letter dated October 4, 1993, and stated that the Nebraska Public Power District (NPPD) uses the ITI-MOVATS TMD and TTC, and Liberty Technologies' VOTES equipment for MOV diagnostic testing. You stated that NPPD had evaluated the MOVs setup using the TMD in accordance with ITI-MOVATS Engineering Report 5.2. You stated that Liberty Technologies was evaluating the issue of calibrating its equipment in one direction and use of

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the equipment in the other direction. You stated that NPPD currently uses the VOTES 2.3 software. You stated that, of 15 MOVs tested using the TTC during the 1991 outage, eight MOVs had been retested with VOTES and that the remaining seven MOVs were under review with completion by January 1, 1994. You stated that the ITI-MOVATS Users Technical Notice 93-01 provides corrected "full scale" accuracy numbers for the TTC. You stated that the ITI-MOVATS Special Test Report 6.0 on actuator repositioning was being evaluated with completion by November 1, 1993. You stated that Liberty Technologies' Customer Service Bulletin CSB-030, "Proximity Probe Type Calibrators with a Possible 3% Shift in Sensitivity," alerts VOTES users to a possible change in sensitivity for proximity probe type calibrators that can overpredict thrust readings. During a future inspection, the NRC staff will discuss NPPD's resolution of the MOV diagnostic equipment accuracy issue.

This completes all efforts on TAC M87938. If you have any questions regarding this issue, please call me at (301) 504-1352.

Sincerely,

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Kevin A. Connaughton, Project Manager Project Directorate IV-1 Division of Reactor Projects - III/IV/V Office of Nuclear Regulation

cc: See next page

Mr. Guy R. Horn Vice-President, Nuclear

Cooper Nuclear Station

CC:

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ORIGINAL SIGNED BY:

Kevin A. Connaughton, Project Manager Project Directorate IV-1 Division of Reactor Projects - III/IV/V Office of Nuclear Regulation

cc: See next page

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