



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555-0001

February 15, 1994

Docket Nos. 50-317
and 50-318

Mr. Robert E. Denton
Vice President - Nuclear Energy
Baltimore Gas & Electric Company
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, Maryland 20657

Dear Mr. Denton:

SUBJECT: GENERIC LETTER 89-10, SUPPLEMENT 5, "INACCURACY OF MOTOR-OPERATED VALVE DIAGNOSTIC EQUIPMENT," CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2 (TAC NOS. M87929 AND M87930)

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 reexamine 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 NRC 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.

Baltimore Gas and Electric Company (BG&E) responded to GL 89-10, Supplement 5, by letter dated September 29, 1993. In its response, BG&E indicated that it uses MOV diagnostic equipment manufactured by Liberty Technologies and is

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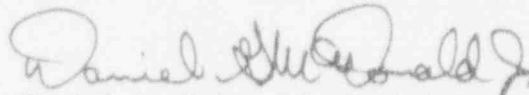
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currently using Liberty Technologies' Valve Operation Test and Evaluation System (VOTES) equipment with VOTES 2.3 software. BG&E stated that all MOVs in the scope of GL 89-10 which were tested using VOTES had been reevaluated. BG&E further indicated that all MOVs were found to be operable. During a future inspection, the NRC staff will evaluate BG&E's resolution of the MOV diagnostic equipment accuracy issue. Of particular interest is BG&E's evaluation of the MOV setups using VOTES and whether or not it determined if any retesting or corrective action was deemed necessary.

This completes our activities related to the above referenced TAC numbers.

Sincerely,



Daniel G. McDonald, Senior Project Manager
Project Directorate I-J
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

cc: See next page

Mr. Robert E. Denton
Baltimore Gas & Electric Company

Calvert Cliffs Nuclear Power Plant
Unit Nos. 1 and 2

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Sincerely,

Original signed by:

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 Division of Reactor Projects - I/II
 Office of Nuclear Reactor Regulation

cc: See next page

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