



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555-0001

February 15, 1994

Docket Nos. 50-334
and 50-412

Mr. J. D. Sieber, Senior Vice President
and Chief Nuclear Officer
Nuclear Power Division
Duquesne Light Company
Post Office Box 4
Shippingport, Pennsylvania 15077-0004

Dear Mr. Sieber:

SUBJECT: GENERIC LETTER 89-10, SUPPLEMENT 5, "INACCURACY OF MOTOR-OPERATED VALVE DIAGNOSTIC EQUIPMENT" - BEAVER VALLEY UNIT NOS. 1 AND 2, (TAC NOS. M87914 AND M87915)

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 to: (1) 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) evaluate the schedule necessary to consider the new information on MOV diagnostic equipment inaccuracy and 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.

You responded to Supplement 5 by letter dated September 29, 1993, and stated that Beaver Valley uses MOV diagnostic equipment manufactured by ITI-MOVATS Incorporated, Teledyne Engineering, and Liberty Technologies. You stated that you had evaluated MOVs setup using the ITI-MOVATS Thrust Measuring Device (TMD) in accordance with ITI-MOVATS Engineering Report 5.2. You indicated that MOVs setup using the ITI-MOVATS Torque Thrust Cell (TTC) were to be evaluated for the potential effect on the actuator thrust output resulting

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from repositioning the actuator on the valve stem to install the TTC by December 31 and November 17, 1993, for Units 1 and 2, respectively. You further stated that the Liberty Technologies' VOTES equipment would be used on a limited basis during the fourth refueling outage at Beaver Valley 2, and that you will use VOTES software that includes corrections for concerns identified in Liberty Technologies' Part 21 notice (dated October 2, 1992) involving torque correction factors and stem material constants. During a future inspection, the NRC staff will discuss your resolution of the MOV diagnostic equipment accuracy issue. Particularly, the NRC staff will discuss with you the results of its evaluations of the MOVs setup using the TMD or TTC, and whether any retesting or corrective action was necessary.

By this letter we are closing TAC Nos. M87914 and M87915.

Sincerely,

Original signed by
 Gordon E. Edison, Senior Project Manager
 Project Directorate I-3
 Division of Reactor Projects - I/II
 Office of Nuclear Reactor Regulation

cc: See next page

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Mr. J. D. Sieber

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By this letter we are closing TAC Nos. M87914 and M87915.

Sincerely,



Gordon E. Edison, Senior Project Manager
Project Directorate I-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

cc: See next page

Mr. J. D. Sieber
Duquesne Light Company

Beaver Valley Power Station
Units 1 & 2

cc:

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