

UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555-0001 February 23, 1994

Docket Nos. 50-275 and 50-323

> Mr. Gregory M. Rueger Nuclear Power Generation, B14A Pacific Gas and Electric Company 77 Beale Street, Room 1451 P.O. Box 770000 San Francisco, California 94177

> > PDR

250040

Dear Mr. Rueger:

SUBJECT: GENERIC LETTER 89-10, SUPPLEMENT 5, "INACCURACY OF MOTOR-OPERATED VALVE DIAGNOSTIC EQUIPMENT" - DIABLO CANYON POWER PLANT UNITS 1 AND 2 (TAC NOS. M87941 AND M87942)

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 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.

The licensee responded to Supplement 5 by letter dated October 4, 1993, and stated that it primarily uses Liberty Technologies' VOTES equipment for MOV diagnostic testing, but in some cases uses Teledyne Engineering Quick Stem Transducers. The licensee stated that it had evaluated MOVs setup using 9403030176 940223 PDR ADUCK 05000275

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Mr. Gregory M. Rueger Pacific Gas and Electric Company

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NRC Resident Inspector Diablo Canyon Nuclear Power Plant c/o U.S. Nuclear Regulatory Commission P. O. Box 369 Avila Beach, California 93424

Dr. Richard Ferguson, Energy Chair Sierra Club California 6715 Rocky Canyon Creston, California 93432

Ms. Nancy Culver San Luis Obispo Mothers for Peace P. O. Box 164 Pismo Beach, California 93448

Ms. Jacquelyn C. Wheeler 3303 Barranca Court San Luis Obispo, California 93401

Managing Editor The County Telegram Tribune 1321 Johnson Avenue P. O. Box 112 San Luis Obispo, California '93406

Chairman San Luis Obispo County Board of Supervisors Room 370 County Government Center San Luis Obispo, California 93408

Mr. Truman Burns Mr. Robert Kinosian California Public Utilities Commission 505 Van Ness, Rm. 4102 San Francisco, California 94102

Diablo Canyon Independent Safety Committee ATTN: Robert R. Wellington, Esq. Legal Counsel 857 Cass Street, Suite D Monterey, California 93940

Diablo Canyon

Mr. Steve Hsu Radiologic Health Branch State Department of Health Services Post Office Box 942732 Sacramento, California 94234

Regional Administrator, Region V U.S. Nuclear Regulatory Commission 1450 Maria Lane, Suite 210 Walnut Creek, California 94596

Mr. Peter H. Kaufman Deputy Attorney General State of California 110 West A Street, Suite 700 San Diego, California 92101

Christopher J. Warner, Esq. Pacific Gas & Electric Company Post Office Box 7442 San Francisco, California 94120

Mr. John Townsend Vice President and Plant Manager Diablo Canyon Power Plant P. O. Box 56 Avila Beach, California 93424 **,**

Mr. Gregory M. Rueger

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VOTES. The licensee indicated that all MOVs were found operable, but that some will be retested. The licensee performed a preliminary evaluation of the new information that the published accuracy for the VOTES equipment is only appropriate for the torque switch trip point when the equipment is calibrated using the Best-Fit-Straight-Line (BFSL) method. The licensee stated that its preliminary evaluation showed no operability concern for the six MOVs affected and that its evaluation would be complete in early 1994. The NRC staff reviewed the licensee's actions in response to the diagnostic equipment error during NRC Inspection 50-275 and 50-323/93-19 and found them to constitute a strength of the GL 89-10 program. During a future inspection, the NRC staff will discuss the licensee's final resolution of the MOV diagnostic equipment accuracy issue. Particularly, the staff will discuss the licensee's operability evaluations of MOVs to be retested as noted in the licensee's October 4, 1993, letter.

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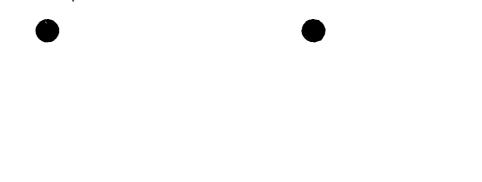
This completes all efforts on TAC Nos. M87941 and M87942. If you have any questions regarding this issue, please call me at (301) 504-1325.

Sincerely,

Mu R. Pithin

Sheri R. Peterson, Project Manager Project Directorate V Division of Reactor Projects III/IV/V Office of Nuclear Reactor Regulation

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Original Signed By:

Sheri R. Peterson, Project Manager Project Directorate V Division of Reactor Projects III/IV/V Office of Nuclear Reactor Regulation

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