



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

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

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Mr. Gregory M. Rueger  
Pacific Gas and Electric Company

Diablo Canyon

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

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

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

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

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

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

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

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

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

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

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

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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.

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,



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

cc:  
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2. The second part of the document outlines the specific procedures for recording transactions. It details the steps involved in the accounting process, from the initial entry of data into the system to the final review and approval of the records.



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