



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555-0001

February 17, 1994

Docket Nos. 50-277, 50-278
50-352, and 50-353

Mr. George A. Hunger, Jr.
Director-Licensing, MC 52A-5
PECO Energy Company
Nuclear Group Headquarters
Correspondence Control Desk
P.O. Box No. 195
Wayne, Pennsylvania 19087-0195

Dear Mr. Hunger:

SUBJECT: GENERIC LETTER 89-10, SUPPLEMENT 5, "INACCURACY OF MOTOR-OPERATED VALVE DIAGNOSTIC EQUIPMENT," PEACH BOTTOM ATOMIC POWER STATIONS, UNITS 2 AND 3 (TACS M87984 AND 87985), AND LIMERICK GENERATING STATION, UNITS 1 AND 2 (TACS M87963 AND M87964)

On June 28, 1993, the NRC staff issued Supplement 5, "Inaccuracy of Motor-Operated Valve [MOV] 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 MOV programs and to identify measures taken to account for uncertainties in properly setting valve operating thrust to ensure valve operability, and (2) 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 to (1) notify the NRC staff of the diagnostic equipment used to confirm the proper size or to establish settings for safety-related MOVs, and (2) report whether they had taken actions or planned to take actions (including the 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.

NRC FILE CENTER COPY

240059

9403030114 940217
PDR ADOCK 05000277
P PDR

DF01 1/0

You responded to Supplement 5 by letter dated October 5, 1993, and stated that you had previously used MOV diagnostic equipment manufactured by ITI-MOVATS, but currently use equipment manufactured by Liberty Technologies (VOTES). Additionally, you stated that high and medium-priority MOVs setup using ITI-MOVATS had been retested with VOTES and that low-priority MOVs (i.e., those with acceptable evaluation results) will be retested in accordance with your GL 89-10 schedule. Furthermore, you stated that MOVs setup using VOTES had been re-evaluated using the VOTES 2.3 software and that no operability concerns had been identified from the VOTES error.

During a future inspection, the NRC staff will discuss your resolution of the MOV diagnostic equipment accuracy issue. This completes our efforts on the subject TACS. If you have any questions regarding this, please call us.

Sincerely,

/s/

/s/

Frank Rinaldi, Project Manager
 Project Directorate I-2
 Division of Reactor Projects - I/II
 Office of Nuclear Reactor Regulation

Stephen Dembek, Project Manager
 Project Directorate I-2
 Division of Reactor Projects - I/II
 Office of Nuclear Reactor Regulation

DISTRIBUTION

- Docket File
- NRC & Local PDRs
- PDI-2 Reading
- SVarga
- JCalvo
- CMiller
- SDembek
- FRinaldi
- MO'Brien
- OGC
- ACRS(10)
- AHansen
- TScarborough
- EWenzinger, RGN-I
- CAAnderson, RGN-I

OFFICE	PDI-2/LA	PDI-2/PM	PDI-2/PM	PDI-2/D	
NAME	MO'Brien	SDembek:rb	FRinaldi	CMiller	
DATE	2/14/94	2/14/94	2/16/94	2/17/94	

February 17, 1994

You responded to Supplement 5 by letter dated October 5, 1993, and stated that you had previously used MOV diagnostic equipment manufactured by ITI-MOVATS, but currently use equipment manufactured by Liberty Technologies (VOTES). Additionally, you stated that high and medium-priority MOVs setup using ITI-MOVATS had been retested with VOTES and that low-priority MOVs (i.e., those with acceptable evaluation results) will be retested in accordance with your GL 89-10 schedule. Furthermore, you stated that MOVs setup using VOTES had been re-evaluated using the VOTES 2.3 software and that no operability concerns had been identified from the VOTES error.

During a future inspection, the NRC staff will discuss your resolution of the MOV diagnostic equipment accuracy issue. This completes all efforts on the subject TACS. If you have any questions regarding this issue, please call us.

Sincerely,



Frank Rinaldi, Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation



Stephen Dembek, Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Mr. George A. Hunger, Jr.
PECO Energy Company

Peach Bottom Atomic Power Station,
Units 2 and 3
Limerick Generating Station,
Units 1 and 2

cc:

J. W. Durham, Sr., Esquire
Sr. V.P. & General Counsel
PECO Energy Company
2301 Market Street, S26-1
Philadelphia, Pennsylvania 19101

Mr. William P. Dornsife, Director
Bureau of Radiation Protection
Pennsylvania Department of
Environmental Resources
P.O. Box 8469
Harrisburg, Pennsylvania 17105-8469

PECO Energy Company
ATTN: Mr. G. R. Rainey, Vice President
Peach Bottom Atomic Power Station
Route 1, Box 208
Delta, Pennsylvania 17314

Board of Supervisors
Peach Bottom Township
R. D. #1
Delta, Pennsylvania 17314

PECO Energy Company
ATTN: Regulatory Engineer, AI-2S
Peach Bottom Atomic Power Station
Route 1, Box 208
Delta, Pennsylvania 17314

Public Service Commission of Maryland
Engineering Division
Chief Engineer
6 St. Paul Centre
Baltimore, MD 21202-6806

Resident Inspector
U.S. Nuclear Regulatory Commission
Peach Bottom Atomic Power Station
P.O. Box 399
Delta, Pennsylvania 17314

Mr. Richard McLean
Power Plant and Environmental
Review Division
Department of Natural Resources
B-3, Tawes State Office Building
Annapolis, Maryland 21401

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

Mr. Rod Krich, 52A-5
PECO Energy Company
955 Chesterbrook Boulevard
Wayne, Pennsylvania 19087-5691

Mr. Roland Fletcher
Department of Environment
201 West Preston Street
Baltimore, Maryland 21201

Mr. David R. Helwig, Vice President
Limerick Generating Station
P.O. Box A
Sanatoga, Pennsylvania 19464

Carl D. Schaefer
External Operations - Nuclear
Delmarva Power & Light Company
P.O. Box 231
Wilmington, DE 19899

Mr. Robert Boyce
Plant Manager
Limerick Generating Station
P.O. Box A
Sanatoga, Pennsylvania 19464

Mr. George A. Hunger, Jr.
PECO Energy Company

Peach Bottom Atomic Power Station,
Units 2 and 3
Limerick Generating Station,
Units 1 and 2

Mr. Craig L. Adams
Superintendent - Services
Limerick Generating Station
P. O. Box A
Sanatoga, Pennsylvania 19464

Mr. Neil S. Perry
Senior Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 596
Pottstown, PA 19464

Mr. James L. Kantner
Regulatory Engineer
Limerick Generating Station
P. O. Box A
Sanatoga, Pennsylvania 19464

Library
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

Mr. Larry Hopkins
Superintendent-Operations
Limerick Generating Station
P. O. Box A
Sanatoga, Pennsylvania 19464

Mr. John Döring, Chairman
Nuclear Review Board
PECO Energy Company
955 Chesterbrook Boulevard
Mail Code 63C-5
Wayne, Pennsylvania 19087

Mr. James A. Muntz
Superintendent - Technical
Limerick Generating Station
P.O. Box A
Sanatoga, Pennsylvania 19464