

**BOSTON EDISON**

Pilgrim Nuclear Power Station  
Rocky Hill Road  
Plymouth, Massachusetts 02360

September 17, 1988  
BECO 88-136

Ralph G. Bird  
Senior Vice President — Nuclear  
U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

License DPR-35  
Docket 50-293

RESPONSE TO NRC BULLETIN 85-03, SUPPLEMENT 1

This letter provides our response to NRC Bulletin 85-03, Supplement 1, which requested a re-examination and possible expansion of licensees' valve testing programs to verify the torque switch settings on safety related motor operated valves (MOV's). Since the issuance of this Bulletin supplement, the NRC by letter of August 8, 1988 has accepted the revised Boiling Water Reactor Owners Group (BWROG) report, NEDC 31322 Supplement 1, dated July 20, 1988.

We endorse the methodology of NEDC-31322 Supplement 1 for the selection of valves and their maximum expected differential pressure. Our endorsement results in no valves being added to the 21 MOV's reported to the NRC in our original Bulletin 85-03 response of December 31, 1986. It does result in a data change for two of the original 21 valves, which is reported in this letter's attachment. The attachment also lists two new valves which were added to Pilgrim as a result of plant modifications made during this outage.

Boston Edison will complete Bulletin 85-03 activities in accordance with the schedule approved by the NRC letter dated April 14, 1988.

*R. G. Bird*  
R. G. Bird

Attachment

PMK/amm/2454

cc: Mr. D. McDonald, Project Manager  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Mail Station P1-137  
Washington, D. C. 20555

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

Senior NRC Resident Inspector  
Pilgrim Nuclear Power Station

8809230110 880917  
PDR ADOCK 05000293  
Q PNU

JEI  
11

Attachment to NRC Bulletin 85-03, Supplement 1

Boston Edison provided data on 21 MOVs affected by Bulletin 85-03 in our letter of December 31, 1986. We have re-evaluated that data based on Supplement 1 and provided a data update on the following two pages. Changes are designated by a change bar in the right hand margin.

Changes to the original list are:

- 1) MO-2301-6 Maximum Opening  $\Delta$  P rose from 25psi to 40psi.
- 2) MO-1301-22 Maximum Opening  $\Delta$  P rose from 25psi to 38psi.

Two new valves were added to the list to reflect their addition to Pilgrim. The new valves are shown on the attached schematic drawing of the HPCI Steam Lines Motor Operated Valves.

They are:

- 1) MO-2301-33 Vacuum Breaker Line Isolation Valve
- 2) MO-2301-34 Vacuum Breaker Line Isolation Valve

## MOV DATA SUMMARY

HPCI System Valve	Size(in) Rating(lb)	Limiterorque Operator	Valve Function	Design <sup>1</sup> Basis $\Delta P$ (PSI)	Max Operating <sup>2</sup> $\Delta P$ (PSI) Open/Close	Torque Switch Jumpered
MO-2301-3 Velan - Gate	10x8 600	SMB-1	Steam Admission Valve	1150	1104/1104	Open
MO-2301-4 Velan - Gate	10x8 900	SMB-2	Steam Line Isolation Valve	1150	1104/1104	Open
MO-2301-5 Velan - Gate	10x8 600	SMB-1	Steam Line Isolation Valve	1150	1104/1104	Open
MO-2301-6 Powell - Gate	16 150	SMB-0	Condensate Storage Tank Suction Valve	60	40/38	Open
MO-2301-8 Anchor - Gate	14x10 900	SMB-1	Injection Valve	1500	1230/1302	Open
MO-2301-9 Anchor - Gate	14x10 900	SMB-1	Injection Test Valve	1500	1230/1302	Open
MO-2301-10 Velan - Globe	10 900	SMB-2	CST Test Return Valve	1500	1290/1337	Open
MO-2301-14 Velan - Globe	4 900	SMB-0	Minimum Flow Bypass Isolation Valve	1500	1327/1355	Open
MO-2301-33 Powell-Gate	4 150	SMB-000	Vacuum Breaker Line Isolation Valve	135	45/45	Open
MO-2301-34 Powell-Gate	4 150	SMB-000	Vacuum Breaker Line Isolation Valve	135	45/45	Open
MO-2301-35 Powell - Gate	16 150	SMB-0	Suppression Pool Suction Isolation Valve	60	26 <sup>3</sup> /26	Open
MO-2301-36 Anchor - Gate	16 150	SMB-00	Suppression Pool Suction Isolation Valve	60	27 <sup>3</sup> /27	Open

<sup>1</sup> Values are for both open and close positions.

<sup>2</sup> Calculated maximum operating pressures based on BWIP's Group Report.

<sup>3</sup> For additional conservatism, increasing pressure due to check valve leakage will be assumed resulting in a suction line pressure of 97 psi. Realizing this possibility, the suction line relief valve will be set lower, or the valves/operators will be readjusted for 100 psi differential.

MCV DATA SUMMARY (Cont'd)

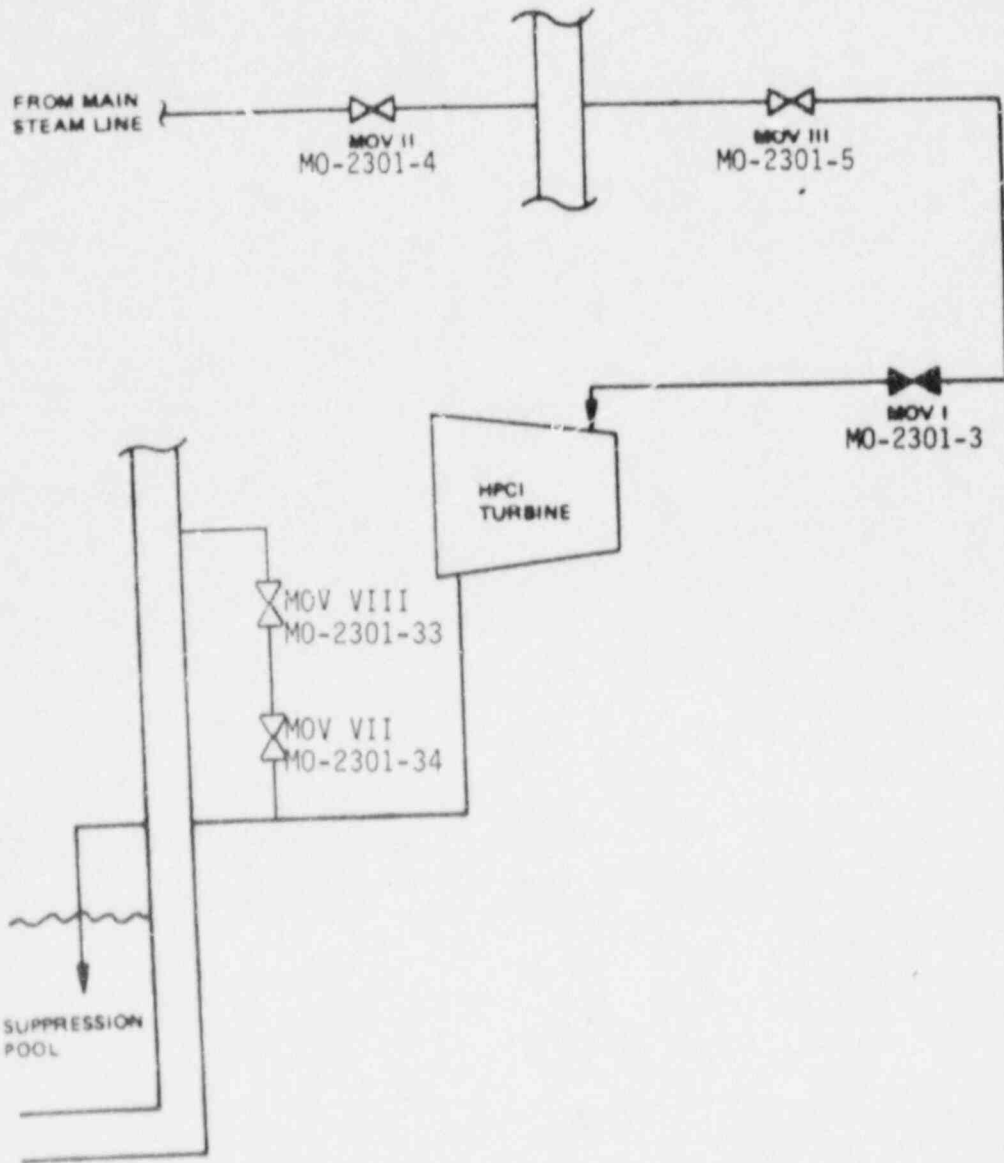
RCIC System Valve	Size(in) Rating(lb)	Limiter torque Operator	Valve Function	Design <sup>1</sup> Basis $\Delta P$ (PSI)	Max Operating <sup>2</sup> $\Delta P$ (PSI) Open/Close	Torque Switch Jumpered
MO-1301-16 Westinghouse - Gate	3 600	SMB-00	Steam Line Isolation Valve	1250	1104/1104	Open
MO-1301-17 Velan - Gate	3 600	SMB-000	Steam Line Isolation Valve	1250	1104/1104	Open
MO-1301-22 Powell - Gate	6 150	SMB-000	Condensate Storage Tank Suction Valve	60	38/36	Open
MO-1301-25 Velan - Gate	6 150	SMB-000	Suppression Pool Suction Isolation Valve	60	27 <sup>3</sup> /27	Open
MO-1301-26 Powell - Gate	6 150	SMB-000	Suppression Pool Suction Isolation Valve	60	26 <sup>3</sup> /26	Open
MO-1301-48 Powell - Gate	4 900	SMB-00	Injection Test Valve	1500	1238/1345	Open
MO-1301-49 Powell - Gate	4 900	SMB-00	Injection Valve	1400	1238/1345	Open
MO-1301-53 Powell - Globe	4 900	SMB-0	CST Test Return Valve	1400	1301/1358	Open
MO-1301-60 Powell - Globe	2 600	SMB-00	Minimum Flow Bypass Isolation Valve	1500	1340/1377	Open
MO-1301-61 Powell - Globe	3 600	SMB-00	Steam Admission Valve	1150	1104/1104	Open
MO-1301-62 Powell - Globe	2 600	SMB-000	Cooling Water to Turbine Accessories	75	60 <sup>4</sup> /28	Open

<sup>1</sup> Values are for both open and close positions.

<sup>2</sup> Calculated maximum operating pressures based on BWR Owner's Group Report.

<sup>3</sup> For additional conservatism, increasing pressure due to check valve leakage will be assumed resulting in a suction line pressure of 95 psi. Realizing this possibility, the suction line relief valve will be set lower or the valves/operators will be readjusted for 100 psi differential.

<sup>4</sup> This value is based on demonstrated operability during pump surveillance testing, and a control valve located upstream.



HPCI System Steam Lines Motor Operated Valves