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December 2, 2011
L-11-346

10 CFR 50.55a

ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT:
Beaver Valley Power Station, Unit Nos. 1 and 2
Docket No. 50-334, License No. DPR-66
Docket No. 50-412, License No. NPF-73
10 CFR 50.55a Request Regarding Motor Operated Valve Testing

Pursuant to 10 CFR 50.55a, FirstEnergy Nuclear Operating Company (FENOC) hereby requests Nuclear Regulatory Commission (NRC) approval of Valve Relief Request VRR1, Revision 1 for the Beaver Valley Power Station, Unit No.1 (BVPS-1) fourth interval Inservice Testing Program for Pumps and Valves (IST Program) and the Beaver Valley Power Station, Unit No. 2 (BVPS-2) third interval IST Program. Request VRR1 is associated with testing of motor-operated valve assemblies included in the Beaver Valley Motor-Operated Valve Program and was previously authorized for BVPS-1 by NRC letter dated September 27, 2007 (Accession Number ML072420376) and for BVPS-2 by NRC letter dated February 14, 2008 (Accession Number ML080140299).

Revision 1 of VRR1 for both BVPS-1 and BVPS-2, specifies the version of Code Case OMN-1 to be implemented and provides a list that identifies affected motor-operated valve assemblies. In addition, wording is changed to make the text of VRR1, Revision 1, consistent for both BVPS-1 and BVPS-2, and includes additional applicable code requirements.

FENOC requests approval of VRR1, Revision 1, by December 15, 2012. There are no regulatory commitments contained in this letter. If there are any questions or if additional information is required, please contact Mr. Phil H. Lashley, Supervisor - Fleet Licensing, at (330) 315-6808.

Sincerely,

Paul A. Harden

Enclosure:
Beaver Valley Power Station, Unit Nos. 1 and 2, 10 CFR 50.55a
Request Number: VRR1, Revision 1

cc: NRC Region I Administrator
NRC Resident Inspector
NRR Project Manager
Director BRP/DEP
Site BRP/DEP Representative

Beaver Valley Power Station, Unit Nos. 1 and 2
10 CFR 50.55a Request Number: VRR1, Revision 1

Proposed Alternative In Accordance with 10CFR50.55a(a)(3)(i)

--Alternative Provides An Acceptable Level Of Quality And Safety--

ASME Code Component(s) Affected:

Motor-operated valve (MOV) assemblies included in the Beaver Valley MOV Program and listed in the attached table.

Applicable Code Edition and Addenda:

American Society of Mechanical Engineers (ASME) Operation and Maintenance (OM) Code-2001 Edition, with Addenda through OMb-2003.

Applicable Code Requirement(s):

ISTA-3130, "Application of Codes Cases," ISTA-3130(b) states that Code Cases shall be applicable to the edition and addenda specified in the test plan.

ISTC-3100, "Preservice Testing," states in part that any valve that has undergone maintenance that could affect its performance after the preservice test shall be tested in accordance with ISTC-3310.

ISTC-3310, "Effects of Valve Repair, Replacement, or Maintenance on Reference Values," states in part that when a valve has been replaced, repaired, or has undergone maintenance that could affect the valve's performance, a new reference value shall be determined, or the previous reference value reconfirmed by an inservice test (IST) run before the time it is returned to service.

ISTC-3510, "Exercising Test Frequency," states in part that active Category A, Category B, and Category C check valves shall be exercised nominally every 3 months.

ISTC-3520, "Exercising Requirements," ISTC-3521 states in part that active Category A and B valves shall be exercised during cold shutdowns if it is not practicable to exercise the valves at power, or that active Category A and B valves shall be exercised during refueling outages if it is not practicable to exercise the valves during cold shutdowns.

ISTC-3700, "Position Verification Testing," states in part that valves with remote position indicators shall be observed locally at least once every two years to verify that valve operation is accurately indicated.

ISTC-5120, "Motor-Operated Valves," ISTC-5121(a) states that active valves shall have their stroke times measured when exercised in accordance with ISTC-3500.

Reason for Request:

NUREG-1482, Revision 1, Section 4.2.5 states in part:

> . . . As an alternative to MOV stroke-time testing, ASME developed Code Case OMN-1, "Alternative Rules for Preservice and Inservice Testing of Certain Electric

> Motor-Operated Valve Assemblies in LWR [Light Water Reactor] Power Plants," which provides periodic exercising and diagnostic testing for use in assessing the operational readiness of MOVs. . .

The following Nuclear Regulatory Commission (NRC) staff recommendation is also provided in Section 4.2.5:

> The NRC staff recommends that licensees implement ASME Code Cases OMN-1 . . . as accepted by the NRC (with certain conditions) in the regulations or [Regulatory Guide] RG 1.192, as alternatives to the stroke-time testing provisions in the ASME Code for applicable [power operated valves] POVs.

Section 4.2.5 provides a basis for the recommendation that states in part:

> RG 1.192 allows licensees with an applicable Code of record to implement ASME Code Case OMN-1 (in accordance with the provisions in the regulatory guide) as an alternative to the Code provisions for MOV stroke-time testing, without submitting request for relief from their code of record. . . . Licensees with a code of record that is not applicable to the acceptance of these Code Cases may submit a request for relief to apply those Code Cases consistent with indicated conditions to provide an acceptable level of quality and safety.

The Code of record for Beaver Valley Power Station, Unit No. 1 (BVPS-1) fourth 10-year inservice test interval, and Beaver Valley Power Station, Unit No. 2 (BVPS-2) third 10-year inservice test interval is ASME OM Code-2001 Edition through OMb-2003 Addenda and the applicable Code for OMN-1, as stated in RG 1.192, was only reaffirmed through the OMa-1999 Addenda.

Proposed Alternative and Basis for Use:

Implement Code Case OMN-1 from the ASME OMb Code, 2006 Addenda, in lieu of MOV stroke-time provisions specified in ISTC-5120, preservice testing provisions of ISTC-3100, reference value provisions of ISTC-3310, exercising test frequency provisions of ISTC-3510, and exercising provisions of ISTC-3520. Code Case OMN-1 has been determined by the NRC to provide an acceptable level of quality and safety when implemented in conjunction with the conditions imposed in RG 1.192. Also, implement the provisions specified in ISTC-3700 in conjunction with the MOV diagnostic test frequency (specified in the IST Program Valve Tables) in lieu of the ISTC-3700 frequency of once every two years.

Using the provisions of this relief request as an alternative to MOV stroke-time testing provisions of ISTC-5120, preservice testing

provisions of ISTC-3100, reference value provisions of ISTC-3310, exercising test frequency provisions of ISTC-3510, exercising provisions of ISTC-3520, and position verification frequency provisions of ISTC-3700, provides an acceptable level of quality for the determination of valve operational readiness. Code Case OMN-1 from the ASME OMb Code, 2006 Addenda, should be considered acceptable for use with ASME OM Code-2001 through OMb-2003 as the Code of record.

Duration of Proposed Alternative:

The proposed alternative identified in this relief request shall be utilized during the BVPS-1 fourth 10-year inservice test Interval, and BVPS-2 third 10-year inservice test interval.

References:

NUREG-1482, Revision 1, Section 4.2.5, "Alternatives to Stroke-Time Testing."

Regulatory Guide 1.192, "Operation and Maintenance Code Case Acceptability, ASME OM Code," Table 2, "Conditionally Acceptable OM Code Cases."

Code Case OMN-1, "Alternative Rules for Preservice and Inservice Testing of Active Electric Motor-Operated Valve Assemblies in Light-Water Reactor Power Plants," from the ASME OMb Code, 2006 Addenda.

BVPS-1 ASME Code Component(s) Affected

Valve Number	Description	Class	Category
MOV-1RC-535	PORV PCV-1RC-455C BLOCK	1	B
MOV-1RC-536	PORV PCV-1RC-456 BLOCK	1	B
MOV-1RC-537	PORV PCV-1RC-455D BLOCK	1	B
MOV-1CH-115B	RWST TO CH PUMP SUCTION HEADER	2	A
MOV-1CH-115C	VCT TO CH PUMP SUCTION HEADER	2	B
MOV-1CH-115D	RWST TO CH PUMP SUCTION HEADER	2	A
MOV-1CH-115E	VCT TO CH PUMP SUCTION HEADER	2	B
MOV-1CH-142	RHR LETDOWN ISOLATION	2	A
MOV-1CH-289	CHARGING INLET ISOLATION	2	A
MOV-1CH-308A	RC PUMP A SW INLET ISOLATION	2	A
MOV-1CH-308B	RC PUMP B SW INLET ISOLATION	2	A
MOV-1CH-308C	RC PUMP C SW INLET ISOLATION	2	A
MOV-1CH-310	REGEN HX DISCHARGE ISOLATION	1	B
MOV-1CH-350	EMERGENCY BORATION ISOLATION	3	B
MOV-1CH-378	RCP SW RETURN ISOLATION	2	A
MOV-1CH-381	RCP SW RETURN ISOLATION	2	A
MOV-1SI-836	RCL COLD LEG SUPPLY FROM CH PUMP	1	A
MOV-1SI-842	1SI-TK-1A,B,C TEST RET TO RWST	2	A
MOV-1SI-860A	1SI-P-1A SUCTION ISOLATION	2	A
MOV-1SI-860B	1SI-P-1A SUCTION ISOLATION	2	A
MOV-1SI-862A	1SI-P-1A RWST SUCTION ISOLATION	2	B
MOV-1SI-862B	1SI-P-1B RWST SUCTION ISOLATION	2	B
MOV-1SI-863A	1SI-P-1A TO CH PUMP SUCTION HEADER	2	B
MOV-1SI-863B	1SI-P-1B TO CH PUMP SUCTION HEADER	2	B
MOV-1SI-864A	1SI-P-1B INJ TO RCS COLD LEG	2	B
MOV-1SI-864B	1SI-P-1A INJ TO RCS COLD LEG	2	B
MOV-1SI-865A	SI ACC 1A OUTLET TO RCS COLD LEG	2	B
MOV-1SI-865B	SI ACC 1B OUTLET TO RCS COLD LEG	2	B
MOV-1SI-865C	SI ACC 1C OUTLET TO RCS COLD LEG	2	B
MOV-1SI-867A	BORON INJ (1SI-TK-2) INLET ISOLATION	2	B
MOV-1SI-867B	BORON INJ (1SI-TK-2) INLET ISOLATION	2	B
MOV-1SI-867C	BORON INJ (1SI-TK-2) INLET ISOLATION	1	A
MOV-1SI-867D	BORON INJ (1SI-TK-2) INLET ISOLATION	1	A
MOV-1SI-885A	1SI-P-1A MINIFLOW ISOLATION	2	A

BVPS-1 ASME Code Component(s) Affected

Valve Number	Description	Class	Category
MOV-1SI-885B	1SI-P-1B MINIFLOW ISOLATION	2	A
MOV-1SI-885C	1SI-P-1B MINIFLOW ISOLATION	2	A
MOV-1SI-885D	1SI-P-1A MINIFLOW ISOLATION	2	A
MOV-1SI-890A	1A LHSI PUMP INJ TO RCS HOT LEGS	1	A
MOV-1SI-890B	1B LHSI PUMP INJ TO RCS HOT LEGS	1	A
MOV-1SI-890C	LHSI PUMP INJ TO RCS COLD LEGS	1	A
MOV-1QS-101A	1QS-P-1A DISCHARGE ISOLATION	2	A
MOV-1QS-101B	1QS-P-1B DISCHARGE ISOLATION	2	A
MOV-1QS-104A	CHEM INJ PUMP 4A DISCH ISOLATION	2	B
MOV-1QS-104B	CHEM INJ PUMP 4B DISCH ISOLATION	2	B
MOV-1RS-156A	OUTSIDE 1RS-P-1A DISCH ISOLATION	2	B
MOV-1RS-156B	OUTSIDE 1RS-P-1B DISCH ISOLATION	2	B
MOV-1FW-151A	AUX FEED PUMP DISCHARGE THROTTLE	2	B
MOV-1FW-151B	AUX FEED PUMP DISCHARGE THROTTLE	2	B
MOV-1FW-151C	AUX FEED PUMP DISCHARGE THROTTLE	2	B
MOV-1FW-151D	AUX FEED PUMP DISCHARGE THROTTLE	2	B
MOV-1FW-151E	AUX FEED PUMP DISCHARGE THROTTLE	2	B
MOV-1FW-151F	AUX FEED PUMP DISCHARGE THROTTLE	2	B
MOV-1RW-102A2	1WR-P-1A DISCH ISOLATION	3	B
MOV-1RW-102B1	1WR-P-1B DISCHARGE ISOLATION	3	B
MOV-1RW-102C1	1WR-P-1C DISCHARGE ISOLATION	3	B
MOV-1RW-102C2	1WR-P-1C DISCHARGE ISOLATION	3	B
MOV-1RW-103A	1RS-E-1A & C HEADER SUPPLY ISOLATION	3	B
MOV-1RW-103B	1RS-E-1A & C HEADER SUPPLY ISOLATION	3	B
MOV-1RW-103C	1RS-E-1B & D HEADER SUPPLY ISOLATION	3	B
MOV-1RW-103D	1RS-E-1B & D HEADER SUPPLY ISOLATION	3	B
MOV-1RW-104A	1RS-E-1A INLET ISOLATION	2	B
MOV-1RW-104B	1RS-E-1B INLET ISOLATION	2	B
MOV-1RW-104C	1RS-E-1C INLET ISOLATION	2	B
MOV-1RW-104D	1RS-E-1D INLET ISOLATION	2	B
MOV-1RW-105A	1RS-E-1A OUTLET ISOLATION	2	B
MOV-1RW-105B	1RS-E-1B OUTLET ISOLATION	2	B
MOV-1RW-105C	1RS-E-1C OUTLET ISOLATION	2	B
MOV-1RW-105D	1RS-E-1D OUTLET ISOLATION	2	B
MOV-1RW-106A	1CC-E-1A,B,C RW SUPPLY ISOLATION	3	B

BVPS-1 ASME Code Component(s) Affected

Valve Number	Description	Class	Category
MOV-1RW-106B	1CC-E-1A,B,C RW SUPPLY ISOLATION	3	B
MOV-1RW-113A	1EE-E-1A RW SUPPLY ISOLATION	3	B
MOV-1RW-113B	1EE-E-1A RW SUPPLY ISOLATION	3	B
MOV-1RW-113C	1EE-E-1B RW SUPPLY ISOLATION	3	B
MOV-1RW-113D1	1EE-E-1B RW SUPPLY ISOLATION	3	B
MOV-1RW-114A	1CC-E-1A,B,C RW SUPPLY ISOLATION	3	B
MOV-1RW-114B	1CC-E-1A,B,C RW SUPPLY ISOLATION	3	B
MOV-1RW-116A	EMERGENCY RW PUMP 9A DISCH ISOL	3	B
MOV-1RW-116B	EMERGENCY RW PUMP 9B DISCH ISOL	3	B
1VS-D-5-3A	CNMT PURGE EXHAUST ISOLATION	2	A
1VS-D-5-3B	CNMT PURGE EXHAUST ISOLATION	2	A
1VS-D-5-5A	CNMT PURGE SUPPLY ISOLATION	2	A
1VS-D-5-5B	CNMT PURGE SUPPLY ISOLATION	2	A

Abbreviated Terms

AUX - Auxiliary
CH - Charging
CHEM - Chemical
CNMT - Containment
DISCH - Discharge
HX - Heat Exchanger
INJ - Injection
ISOL - Isolation
PORV - Power Operated Relief Valve
RC - Reactor Coolant
RCL - Reactor Coolant Loop
RCP - Reactor Coolant Pump
RCS - Reactor Coolant System
REGEN - Regenerative
RET - Return
RHR - Residual Heat Removal
RW - River Water
RWST - Refueling Water Storage Tank
SW - Seal Water
VCT - Volume Control Tank
1SI-P - Safety Injection Pump
1SI-TK - Safety Injection Accumulator
PCV-1RC - Pressurizer Pressure Control Valve
1QS-P - Quench Spray Pump
1RS-P - Recirculation Spray Pump
1WR-P - River Water Pump
1RS-E - Recirculation Spray Heat Exchanger
1CC-E - Component Cooling Water Heat Exchanger
1EE-E - Diesel Generator Heat Exchanger

BVPS-2 ASME Code Component(s) Affected

Valve Number	Description	Class	Category
2RCS*MOV535	RCS PORV ISOLATION BLOCK	1	B
2RCS*MOV536	RCS PORV ISOLATION BLOCK	1	B
2RCS*MOV537	RCS PORV ISOLATION BLOCK	1	B
2CHS*LCV115B	CHG PUMP HEADER SUPPLY FROM RWST	2	A
2CHS*LCV115C	CHG PUMP HEADER SUPPLY FROM VCT	2	B
2CHS*LCV115D	CHG PUMP HEADER SUPPLY FROM RWST	2	A
2CHS*LCV115E	CHG PUMP HEADER SUPPLY FROM VCT	2	B
2CHS*MOV289	CHARGING LINE ISOLATION	2	A
2CHS*MOV308A	2RCS*P21A SEAL WATER SUPPLY ISOL	2	A
2CHS*MOV308B	2RCS*P21B SEAL WATER SUPPLY ISOL	2	A
2CHS*MOV308C	2RCS*P21C SEAL WATER SUPPLY ISOL	2	A
2CHS*MOV310	CHARGING TO RCS ISOLATION	2	B
2CHS*MOV350	BORIC ACID TANK TO CHARGING PUMP	2	B
2CHS*MOV378	RCP SEAL WATER HEADER ISOLATION	2	A
2CHS*MOV381	RCP SEAL WATER HEADER ISOLATION	2	A
2CHS*MOV8130A	CHG PUMP MINI-FLOW HEADER ISOL	2	B
2CHS*MOV8130B	CHG PUMP SUCTION HEADER ISOLATION	2	B
2CHS*MOV8131A	CHG PUMP SUCTION HEADER ISOLATION	2	B
2CHS*MOV8131B	CHG PUMP SUCTION HEADER ISOLATION	2	B
2CHS*MOV8132A	CHG PUMP SUCTION HEADER ISOLATION	2	B
2CHS*MOV8132B	CHG PUMP DISCHARGE HEADER ISOL	2	B
2CHS*MOV8133A	CHG PUMP DISCHARGE HEADER ISOL	2	B
2CHS*MOV8133B	CHG PUMP DISCHARGE HEADER ISOL	2	B
2RHS*MOV701A	RHS PUMP SUPPLY ISOLATION	1	A
2RHS*MOV701B	RHS PUMP SUPPLY ISOLATION	1	A
2RHS*MOV702A	RHS PUMP SUPPLY ISOLATION	1	A
2RHS*MOV702B	RHS PUMP SUPPLY ISOLATION	1	A
2RHS*MOV720A	RHS TO SIS RETURN LINE ISOLATION	1	A
2RHS*MOV720B	RHS TO SIS RETURN LINE ISOLATION	1	A
2SIS*MOV836	CHS TO RCS COLD LEG INJECTION ISOL	2	A
2SIS*MOV840	CHS TO RCS COLD LEG INJECTION ISOL	2	A
2SIS*MOV841	CHS TO RCS COLD LEG INJECTION ISOL	2	B
2SIS*MOV842	SIS ACCUMULATOR TEST LINE	2	A
2SIS*MOV863A	SIS PUMP DISCHARGE ISOLATION	2	B

BVPS-2 ASME Code Component(s) Affected

Valve Number	Description	Class	Category
2SIS*MOV863B	SIS PUMP DISCHARGE ISOLATION	2	B
2SIS*MOV867A	BORON INJECTION TANK INLET ISOLATION	2	B
2SIS*MOV867B	BORON INJECTION TANK INLET ISOLATION	2	B
2SIS*MOV867C	BORON INJECTION TANK OUTLET ISOL	2	A
2SIS*MOV867D	BORON INJECTION TANK OUTLET ISOL	2	A
2SIS*MOV869A	SIS TO RCS HOT LEG HEADER ISOLATION	2	A
2SIS*MOV869B	SIS TO RCS HOT LEG HEADER ISOLATION	2	A
2SIS*MOV8809A	SIS PUMP SUCTION ISOLATION	2	A
2SIS*MOV8809B	SIS PUMP SUCTION ISOLATION	2	A
2SIS*MOV8811A	RSS PUMP DISCH TO SIS PIPING ISOL	2	B
2SIS*MOV8811B	RSS PUMP DISCH TO SIS PIPING ISOL	2	B
2SIS*MOV8887A	SIS PUMP DISCH TO RCS HOT LEG ISOL	2	B
2SIS*MOV8887B	SIS PUMP DISCH TO RCS HOT LEG ISOL	2	B
2SIS*MOV8888A	SIS PUMP DISCHARGE ISOLATION	2	A
2SIS*MOV8888B	SIS PUMP DISCHARGE ISOLATION	2	A
2SIS*MOV8889	SIS PUMP DISCHARGE ISOLATION	2	A
2SIS*MOV8890A	SIS PUMP MINI-FLOW	2	A
2SIS*MOV8890B	SIS PUMP MINI-FLOW	2	A
2QSS*MOV101A	QSS PUMP DISCHARGE ISOLATION	2	A
2QSS*MOV101B	QSS PUMP DISCHARGE ISOLATION	2	A
2RSS*MOV154C	RSS PUMP MINI-FLOW ISOLATION	2	B
2RSS*MOV154D	RSS PUMP MINI-FLOW ISOLATION	2	B
2RSS*MOV155A	RSS PUMP SUCTION ISOLATION	2	B
2RSS*MOV155B	RSS PUMP SUCTION ISOLATION	2	B
2RSS*MOV155C	RSS PUMP SUCTION ISOLATION	2	B
2RSS*MOV155D	RSS PUMP SUCTION ISOLATION	2	B
2RSS*MOV156C	RSS PUMP DISCHARGE ISOLATION	2	B
2RSS*MOV156D	RSS PUMP DISCHARGE ISOLATION	2	B
2CCP*MOV112A	2RHS*E21A & E22A SUPPLY ISOLATION	3	B
2CCP*MOV112B	2RHS*E21B & E22B SUPPLY ISOLATION	3	B
2CCP*MOV118	CNMT INST AIR HX INLET ISOLATION	3	B
2CCP*MOV119	CNMT INST AIR HX INLET ISOLATION	3	B
2CCP*MOV120	CNMT INST AIR HX INLET ISOLATION	3	B
2CCP*MOV150-1	CCP HEADER CNMT ISOLATION	2	A
2CCP*MOV150-2	CCP HEADER CONTAINMENT ISOLATION	2	A

BVPS-2 ASME Code Component(s) Affected

Valve Number	Description	Class	Category
2CCP*MOV151-1	CCP HEADER CONTAINMENT ISOLATION	2	A
2CCP*MOV151-2	CCP HEADER CONTAINMENT ISOLATION	2	A
2CCP*MOV156-1	CCP HEADER CONTAINMENT ISOLATION	2	A
2CCP*MOV156-2	CCP HEADER CONTAINMENT ISOLATION	2	A
2CCP*MOV157-1	CCP HEADER CONTAINMENT ISOLATION	2	A
2CCP*MOV157-2	CCP HEADER CONTAINMENT ISOLATION	2	A
2CCP*MOV175-1	AUX BLDG HEADER SC-3/NNS ISOLATION	3	B
2CCP*MOV175-2	AUX BLDG HEADER SC-3/NNS ISOLATION	3	B
2CCP*MOV176-1	AUX BLDG HEADER SC-3/NNS ISOLATION	3	B
2CCP*MOV176-2	AUX BLDG HEADER SC-3/NNS ISOLATION	3	B
2CCP*MOV177-1	AUX BLDG HEADER SC-3/NNS ISOLATION	3	B
2CCP*MOV177-2	AUX BLDG HEADER SC-3/NNS ISOLATION	3	B
2CCP*MOV178-1	AUX BLDG HEADER SC-3/NNS ISOLATION	3	B
2CCP*MOV178-2	AUX BLDG HEADER SC-3/NNS ISOLATION	3	B
2SWE*MOV116A	AUX SERVICE WATER PUMP DISCHARGE	3	B
2SWE*MOV116B	AUX SERVICE WATER PUMP DISCHARGE	3	B
2SWS*MOV102A	SWS PUMP DISCHARGE ISOLATION	3	B
2SWS*MOV102B	SWS PUMP DISCHARGE ISOLATION	3	B
2SWS*MOV102C1	SWS PUMP DISCHARGE ISOLATION	3	B
2SWS*MOV102C2	SWS PUMP DISCHARGE ISOLATION	3	B
2SWS*MOV103A	SWS TO RSS HX SUPPLY HEADER ISOL	3	B
2SWS*MOV103B	SWS TO RSS HX SUPPLY HEADER ISOL	3	B
2SWS*MOV105A	SWS DISCHARGE FROM RSS HX A ISOL	3	B
2SWS*MOV105B	SWS DISCHARGE FROM RSS HX B ISOL	3	B
2SWS*MOV105C	SWS DISCHARGE FROM RSS HX C ISOL	3	B
2SWS*MOV105D	SWS DISCHARGE FROM RSS HX D ISOL	3	B
2SWS*MOV106A	SWS SUPPLY TO RSS HX ISOLATION	3	B
2SWS*MOV106B	SWS SUPPLY TO RSS HX ISOLATION	3	B
2SWS*MOV107A	SWS SUPPLY TO CCS HX ISOLATION	3	B
2SWS*MOV107B	SWS SUPPLY TO CCS HX ISOLATION	3	B
2SWS*MOV107C	SWS SUPPLY TO CCS HX ISOLATION	3	B
2SWS*MOV107D	SWS SUPPLY TO CCS HX ISOLATION	3	B
2SWS*MOV113A	SWS SUPPLY TO D/G HX ISOLATION	3	B
2SWS*MOV113D	SWS SUPPLY TO D/G HX ISOLATION	3	B
2SWS*MOV152-1	SWS SUPPLY TO CNMT RECIRC COIL ISOL	2	A

BVPS-2 ASME Code Component(s) Affected

Valve Number	Description	Class	Category
2SWS*MOV152-2	SWS SUPPLY TO CNMT RECIRC COIL ISOL	2	A
2SWS*MOV155-1	SWS RETURN FROM CNMT RECIRC COIL	2	A
2SWS*MOV155-2	SWS RETURN FROM CNMT RECIRC COIL	2	A
2IAC*MOV130	CNMT INSTRUMENT AIR ISOLATION	2	A
2IAC*MOV133	CNMT INSTRUMENT AIR ISOLATION	2	A
2IAC*MOV134	CNMT INSTRUMENT AIR ISOLATION	2	A
2HVR*MOD23A	CNMT PURGE EXHAUST ISOLATION	2	A
2HVR*MOD23B	CNMT PURGE EXHAUST ISOLATION	2	A
2HVR*MOD25A	CNMT PURGE SUPPLY ISOLATION	2	A
2HVR*MOD25B	CNMT PURGE SUPPLY ISOLATION	2	A

Abbreviated Terms

AUX - Auxiliary
CCP - Primary Component Cooling Water System
CCS - Turbine Plant Component Cooling Water System
CHS - Chemical and Volume Control System
CHG - Charging
CNMT - Containment
DISCH - Discharge
D/G - Diesel Generator
HX - Heat Exchanger
INST - Instrument
ISOL - Isolation
PORV - Power Operated Relief Valve
QSS - Quench Spray System
RCP - Reactor Coolant Pump
RCS - Reactor Coolant System
RECIRC - Recirculation
RHS - Residual Heat Removal System (BVPS-2)
RSS - Recirculation Spray System
RWST - Refueling Water Storage Tank
SIS - Safety Injection System
SWS - Service Water System
VCT - Volume Control Tank
2RCS*P - Reactor Coolant Pump
2RHS*E - Residual Heat Removal System Heat Exchanger