

INSERVICE TESTING PROGRAM FOR
PUMPS AND VALVES

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
UNIT 2

Docket No. 50-414

Revision 0

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INTRODUCTION

The Inservice Testing Program for Pumps and Valves provides a comprehensive testing plan as required by 10CFR50.55 a(g). This program is based on The ASME Boiler and Pressure Vessel Code, Section XI, Subsections IWP and IWV. The 1980 Edition and Addenda through the Winter 1981 Addenda were used in developing this program. This test program will be applicable for the initial 120 month interval beginning upon issuance of the operating license, after which the program will be reviewed and updated to that edition and addenda of the Code in effect not more than twelve months prior to the beginning of the next 120 month interval.

Pump and valve testing requirements are presented in Parts I and II of this submittal. Each part provides summary, program format, data sheet and relief request sections.

PART I: PUMP INSERVICE TESTING PROGRAM

A. Summary

Individual pump test requirements are listed on the data sheets in Section C. An explanation of the data sheet format and abbreviations is provided in Section B. Section D contains relief requests providing justification for exceptions taken to Code Test Requirements as allowed by 10CFR50.55a (g)(5)(iii). Relief Requests are referenced by number on the data sheets provided in Section C.

B. PROGRAM FORMAT

This section contains explanations of the column format and abbreviations used on the data sheets provided in Section C.

1. Pump - Pump name
2. Test Parameter Measured - The six subcolumns under this column represent the six inservice test quantities which must be measured (as shown in Table IWP-3100-1). These parameters will be addressed for each pump with one of the following entries specifying testing interval:

NR - Not Required
Q - Quarterly Test
YR - Yearly Test

As allowed by IWV-4400, rotative speed measurement will not be obtained for synchronous or induction type motor drivers.

As required by Table IWP-3100-1, lubricant level or pressure for each pump will be observed but not measured.

3. Relf Reqs - If the pump is being tested in accordance with the Code, this column will be blank. A reference number will be entered in the column for any pump which cannot be tested in accordance with the Code. This reference number identifies a specific relief request in Section D.
4. Flow Diagram - The Duke Flow Diagram number on which the pump appears.
5. Coordinates - Location on the Duke Flow Diagram where the pump is found.

Although not required by the Code, each pump specified in this program will be jogged monthly as recommended by the NRC.

C. DATA SHEETS

This section identifies all pumps and their test requirements included in the Pump Inservice Testing Program. Refer to Section B for column descriptions and Section D for applicable relief requests.

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PUMP INSERVICE TESTING PROGRAM

PUMP	TEST PARAMETER MEASURED						REL REQS	FLOW DIAGRAM	COORDINATES
	SPEED	INLET PRESSURE	DIFF PRESSURE	FLOW RATE	VIBRATION AMPLITUDE	BEARING TEMP			
1. Safety Injection Pumps (2A,2B)	NR	Q	Q	Q	Q	YR		CN-2562-1.2	J-10, D-10
2. Residual Heat Removal Pumps (2A,2B)	NR	Q	Q	Q	Q	YR		CN-2561-1.0 CN-2561-1.1	G-11 G-11
3. Nuclear Service Water Pumps (2A,2B)	NR	C	Q	Q	Q	YR	1	CN-2574-1.0 CN-2574-1.2	H-4 H-4
4. Containment Spray Pumps (2A,2B)	NR	Q	Q	Q	Q	YR		CN-2563-1.0	J-10, D-10
5. Component Cooling Pumps (2A1, 2A2 2B1, 2B2)	NR	Q	Q	Q	Q	YR		CN-2573-1.0	E-2, E-6, E-9 E-12
6. Centrifugal Charging Pumps (2A,2B)	NR	Q	Q	Q	Q	YR		CN-2554-1.7	I-8, D-8
7. Motor Driven Auxiliary Feedwater Pumps (2A,2B)	NR	Q	Q	Q	Q	YR		CN-2592-1.0	G-3, G-7
8. Turbine Driven Auxiliary Feedwater Pump (No. 2)	Q	Q	Q	Q	Q	YR		CN-2592-1.0	G-11

D. RELIEF REQUESTS

This section contains relief requests for those pumps not tested according to Code Requirements. Relief requests are identified by the reference number appearing in the "Relf Reqs" column in Section C.

GENERAL RELIEF REQUESTS

- A. Test Requirement: Measure pump suction pressure (P_i) before pump startup per Table IWP-3100-1.

Basis for Relief: Purpose for measuring pump suction pressure prior to starting pump is to ensure adequate NPSH is available. Some pumps may already be running to support normal plant operation when the pump test is run. Since pump may already be in service, NPSH requirements have been met. It is unnecessary to stop an operating pump only to measure static suction pressure.

Alternate Testing: Pump suction pressure, prior to and following startup, will be measured for pumps which are not currently in operation at time of test. Pump suction pressure with the pump running will be measured for pumps which are currently in operation at time of test.

- B. Test Requirement: Measure pump bearing vibration amplitude during pump tests utilizing instrumentation with $\pm 5\%$ full scale accuracy.

Basis For Relief: Catawba has no permanently installed vibration instrumentation. Portable instruments used to measure vibration amplitude have an accuracy of $\pm 11\%$ full scale.

Alternate Testing: Vibration will be measured utilizing portable instrumentation with an accuracy of $\pm 11\%$ full scale.

RELIEF REQUEST #1

PUMP: Nuclear Service Water Pumps 2A and 2B

TEST REQUIREMENTS: Annually run pumps until bearing temperatures stabilize and record temperature.

BASIS FOR RELIEF: There is not any instrumentation installed to measure pump bearing temperature and no meaningful data can be obtained from bearing housing surface temperature measurements. Bearings are cooled by pump flowing medium and are inaccessible.

ALTERNATE TESTING: The mechanical condition of the pump bearings will be determined from vibration amplitude measurements which will be obtained quarterly.

PART II: VALVE INSERVICE TESTING PROGRAM

A. SUMMARY

Individual valve test requirements are listed in Section C. These valves are listed sequentially by Duke identification number. The columns and abbreviations used on the data sheets to identify testing requirements are listed in Section B. Section D contains relief requests providing justification for exceptions taken to Code Test Requirements as allowed by 10CFR50.55a(g)(5)(iii). Relief Requests are referenced by number on the data sheets provided in Section C.

B. PROGRAM FORMAT

This section contains explanations of the column format and abbreviations used on the data sheets provided in Section C.

1. Valve Name - Duke Power identification number assigned to each valve.
2. ASME Class - The ASME class for each valve
3. Category - Valve category as defined in Subsection IWV-2200
4. Passive - An "X" in this column indicates that the valve is passive as defined in IWV-2100(b). A blank signifies that the valve is active as defined in IWV-2100(a).
5. Size - Nominal diameter of the valve
6. Valve Type - The following is a list of abbreviations used for each valve type.

- GA - Gate Valve
- CK - Check Valve
- GL - Globe Valve
- RL - Relief Valve
- TW - Three-way Valve
- BL - Ball Valve
- PL - Plug Valve
- BF - Butterfly Valve
- ND - Needle Valve

7. Act - The following is a list of abbreviations used for each valve actuator type.

- EL - Electric
- SA - Self-Actuating
- M - Manual
- P - Piston
- AD - Air Diaphragm
- H - Hydraulic
- S - Solenoid

8. Norm Pos - The following is a list of abbreviations used to specify normal valve position as shown on the flow diagram.

- O - Open
- C - Closed
- T - Throttled
- LO - Locked Open
- LC - Locked Closed
- LT - Locked Throttled
- - Valve position determined by other system parameters as in the case of check valves or relief valves.

9. Test Req - The following is a list of abbreviations used to specify the Code Test Requirements for each valve.
- Q - Exercise Valve (Full Stroke) for operability per IWV-3410 every 3 months.
 - LT - Leak Test Valve per IWV-3420 not less than once every 2 years
 - MT - Stroke Time Valve (Full Stroke) per IWV-3410 every 3 months
 - CV - Exercise Check Valve (Full Stroke) to the position required to fulfill its function per IWV-3520 every 3 months.
 - SRV - Safety and Relief Valves are tested per IWV-3510.
 - FS - Test Valve for Fail Safe Actuation per IWV-3415 every 3 months.
 - RP - Remote Position Indication Verification per IWV-3300 not less than once every 2 years.
10. Relf Reqs - If the valve is being tested in accordance with the shortest Code-Required Test Frequency, this column will be blank. A reference number will be entered in this column for valves which the shortest code-required test frequency cannot be met. This reference number identifies a specific relief request in Section D.
11. Test Alter - If the valve is being tested in accordance with the shortest Code-Required Test Frequency, this column will be blank. An alternate test abbreviation will be entered in this column for valves which the shortest Code-Required Test Frequency cannot be met. A list of these abbreviations is as follows:
- CS - Perform required testing during cold shutdown (mode 5). In case of frequent shutdowns testing will not be performed more often than once every 3 months.*
 - RF - Perform required testing during refueling (mode 6).
 - Z - Exercise valve (partial stroke) for operability every 3 months during power operation and exercise valve (full stroke) for operability during cold shutdown (mode 5).

CZ - Exercise check valve (partial stroke) toward the position required to fulfill its function during operation and exercise valve (full stroke) toward the position required to fulfill its function during cold shutdown (mode 5).

RR - Refer to Relief Request For Test Frequency.

BV - Pressure boundary valve leak rate test. **

*NOTE: The following condition applies for all testing performed during cold shutdown:

Valve testing will commence as soon as possible, but no later than 48 hours, after reaching cold shutdown conditions. Valve testing will proceed in a normal manner until all testing is complete or the plant is ready to return to power. A completion of all valve testing is not a prerequisite to return to power. Any testing not completed by the end of one cold shutdown will be performed during subsequent cold shutdowns, starting from the last test performed at the previous cold shutdown. For pressurizer PORV's only (2NC32B, 2NC34A, 2NC36B), testing will be performed each cold shutdown prior to return to power, not to exceed once every 3 months.

** NOTE: All leak rate tests are performed in accordance with 10CFR50, Appendix J, Type C leak rate procedure with the exception of Pressure boundary valves, whose test is a differential pressure test with water as a medium. Test frequency will be in accordance with Tech Spec Surveillance Requirement 4.4.6.2.2.

12. Flow Diagram - The Duke flow diagram number on which the valve appears.
13. Coordinates - Location of the Duke flow diagram where the valve is found
14. Valve Time - This column provides the limiting valve of full stroke time (in seconds) for power operated valves.
15. ESF - The following is a list of abbreviations used to specify which safety signal certain valves receive:
 - S - Receives a safety injection signal
 - T - Receives a containment isolation signal from containment high pressure (1 psig)
 - P - Receives a containment spray signal from containment high-high pressure (3 psig)

F - Receives a feedwater isolation signal

16. Resp Party

The following is a list of abbreviations used to specify which station group is responsible for performing the indicated test:

Prf - Performance
Ops - Operations
Mnt - Maintenance
P/M - Performance and Maintenance
O/P - Operations and Performance
O/M - Operations and Maintenance

C. DATA SHEETS

This section identifies all valves and their test requirements included in the Valve Inservice Testing Program. Valves are arranged sequentially by Duke identification number. Refer to Section B for column descriptions and Section D for applicable relief requests.

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VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 0

VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2BB 8A	2	B		4.0	GA	EL	0	Q			CN-2580.10.	J05		T	PRF	
2BB 8A	2	B		4.0	GA	EL	0	MT			CN-2580.10.	J05	10	T	PRF	
2BB 8A	2	B		4.0	GA	EL	0	RP			CN-2580.10.	J05		T	PRF	
2BB 10B	2	B		4.0	GA	EL	0	Q			CN-2580.10.	J06		T	PRF	
2BB 10B	2	B		4.0	GA	EL	0	MT			CN-2580.10.	J06	10	T	PRF	
2BB 10B	2	B		4.0	GA	EL	0	RP			CN-2580.10.	J06		T	PRF	
2BB 19A	2	B		4.0	GA	EL	0	Q			CN-2580.10.	D05		T	PRF	
2BB 19A	2	B		4.0	GA	EL	0	MT			CN-2580.10.	D05	10	T	PRF	
2BB 19A	2	B		4.0	GA	EL	0	RP			CN-2580.10.	D05		T	PRF	
2BB 21B	2	B		4.0	GA	EL	0	Q			CN-2580.10.	D06		T	PRF	
2BB 21B	2	B		4.0	GA	EL	0	MT			CN-2580.10.	D06	10	T	PRF	
2BB 21B	2	B		4.0	GA	EL	0	RP			CN-2580.10.	D06		T	PRF	
2BB 56A	2	B		4.0	GA	EL	0	Q			CN-2580.10.	H05		T	PRF	
2BB 56A	2	B		4.0	GA	EL	0	MT			CN-2580.10.	H05	10	T	PRF	
2BB 56A	2	B		4.0	GA	EL	0	RP			CN-2580.10.	H05		T	PRF	
2BB 57B	2	B		4.0	GA	EL	0	Q			CN-2580.10.	H06		T	PRF	
2BB 57B	2	B		4.0	GA	EL	0	MT			CN-2580.10.	H06	10	T	PRF	
2BB 57B	2	B		4.0	GA	EL	0	RP			CN-2580.10.	H06		T	PRF	
2BB 60A	2	B		4.0	GA	EL	0	Q			CN-2580.10.	F05		T	PRF	
2BB 60A	2	B		4.0	GA	EL	0	MT			CN-2580.10.	F05	10	T	PRF	
2BB 60A	2	B		4.0	GA	EL	0	RP			CN-2580.10.	F05		T	PRF	
2BB 61B	2	B		4.0	GA	EL	0	Q			CN-2580.10.	F06		T	PRF	
2BB 61B	2	B		4.0	GA	EL	0	MT			CN-2580.10.	F06	10	T	PRF	
2BB 61B	2	B		4.0	GA	EL	0	RP			CN-2580.10.	F06		T	PRF	
2BB147B	2	B		1.0	GL	EL	C	Q			CN-2580.10.	K06		T	PRF	

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DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 0

VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2BB147B	2	B		1.0	GL	EL	C	MT			CN-2580.10.	K06	10	T	PRF	
2BB147B	2	B		1.0	GL	EL	C	RP			CN-2580.10.	K06		T	PRF	
2BB148B	2	B		1.0	GL	EL	C	Q			CN-2580.10.	I06		T	PRF	
2BB148B	2	B		1.0	GL	EL	C	MT			CN-2580.10.	I06	10	T	PRF	
2BB148B	2	B		1.0	GL	EL	C	RP			CN-2580.10.	I06		T	PRF	
2BB149B	2	B		1.0	GL	EL	C	Q			CN-2580.10.	G06		T	PRF	
2BB149B	2	B		1.0	GL	EL	C	MT			CN-2580.10.	G06	10	T	PRF	
2BB149B	2	B		1.0	GL	EL	C	RP			CN-2580.10.	G06		T	PRF	
2BB150B	2	B		1.0	GL	EL	C	Q			CN-2580.10.	E06		T	PRF	
2BB150B	2	B		1.0	GL	EL	C	MT			CN-2580.10.	E06	10	T	PRF	
2BB150B	2	B		1.0	GL	EL	C	RP			CN-2580.10.	E06		T	PRF	
2CA 8	3	C		10.	CK	SA	-	CV	A03	RF	CN-2592.10.	D09			PRF	
2CA 10	3	C		10.	CK	SA	-	CV	A03	RF	CN-2592.10.	D05			PRF	
2CA 12	3	C		10.	CK	SA	-	CV	A03	RF	CN-2592.10.	C02			PRF	
2CA 15A	3	B		6.0	GA	EL	C	Q			CN-2592.10.	D03			PRF	
2CA 15A	3	B		6.0	GA	EL	C	MT			CN-2592.10.	D03	10		PRF	
2CA 15A	3	B		6.0	GA	EL	C	RP			CN-2592.10.	D03			PRF	
2CA 18B	3	B		6.0	GA	EL	C	Q			CN-2592.10.	D06			PRF	
2CA 18B	3	B		6.0	GA	EL	C	MT			CN-2592.10.	D06	10		PRF	
2CA 18B	3	B		6.0	GA	EL	C	RP			CN-2592.10.	D06			PRF	
2CA 20	3	C		4.0	TW	SA	-	CV			CN-2592.10.	I12			PRF	

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VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 0

VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2CA 23	3	C		2.5	CK	SA	-	CV			1CN-2592.10.	I10			PRF	
2CA 27	3	C		4.0	TW	SA	-	CV			1CN-2592.10.	I05			PRF	
2CA 28	3	C		2.0	CK	SA	-	CV			1CN-2592.10.	J03			PRF	
2CA 32	3	C		4.0	TW	SA	-	CV			1CN-2592.10.	I09			PRF	
2CA 33	3	C		2.0	CK	SA	-	CV			1CN-2592.10.	J07			PRF	
2CA 36	3	B		4.0	GL	AD	0	Q			1CN-2592.11.	C12			PRF	
2CA 36	3	B		4.0	GL	AD	0	FS			1CN-2592.11.	C12			PRF	
2CA 36	3	B		4.0	GL	AD	0	MT			1CN-2592.11.	C12	20		PRF	
2CA 36	3	B		4.0	GL	AD	0	RP			1CN-2592.11.	C12			PRF	
2CA 37	2	C		4.0	CK	SA	-	CV	1A01	CS	1CN-2592.11.	D14			OPS	
2CA 38A	2	B		4.0	GA	EL	C	Q			1CN-2592.11.	E14			PRF	
2CA 38A	2	B		4.0	GA	EL	C	MT			1CN-2592.11.	E14	20		PRF	
2CA 38A	2	B		4.0	GA	EL	C	RP			1CN-2592.11.	E14			PRF	
2CA 40	3	B		4.0	GL	AD	0	Q			1CN-2592.11.	J13			PRF	
2CA 40	3	B		4.0	GL	AD	0	FS			1CN-2592.11.	J13			PRF	
2CA 40	3	B		4.0	GL	AD	0	MT			1CN-2592.11.	J13	20		PRF	
2CA 40	3	B		4.0	GL	AD	0	RP			1CN-2592.11.	J13			PRF	
2CA 41	2	C		4.0	CK	SA	-	CV	1A01	CS	1CN-2592.11.	H14			OPS	

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VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 0

VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2CA 42B	2	B		4.0	GA	EL	0	Q			CN-2592.11.	H14			PRF	
2CA 42B	2	B		4.0	GA	EL	0	MT			CN-2592.11.	H14	20		PRF	
2CA 42B	2	B		4.0	GA	EL	0	RP			CN-2592.11.	H14			PRF	
2CA 44	3	B		4.0	GL	AD	0	Q			CN-2592.11.	J11			PRF	
2CA 44	3	B		4.0	GL	AD	0	FS			CN-2592.11.	J11			PRF	
2CA 44	3	B		4.0	GL	AD	0	MT			CN-2592.11.	J11	20		PRF	
2CA 44	3	B		4.0	GL	AD	0	RP			CN-2592.11.	J11			PRF	
2CA 45	2	C		4.0	CK	SA	-	CV	A01	CS	CN-2592.11.	J09			OPS	
2CA 46B	2	B		4.0	GA	EL	0	Q			CN-2592.11.	J09			PRF	
2CA 46B	2	B		4.0	GA	EL	0	MT			CN-2592.11.	J09	20		PRF	
2CA 46B	2	B		4.0	GA	EL	0	RP			CN-2592.11.	J09			PRF	
2CA 48	3	B		4.0	GL	AD	0	Q			CN-2592.11.	E08			PRF	
2CA 48	3	B		4.0	GL	AD	0	FS			CN-2592.11.	E08			PRF	
2CA 48	3	B		4.0	GL	AD	0	MT			CN-2592.11.	E08	20		PRF	
2CA 48	3	B		4.0	GL	AD	0	RP			CN-2592.11.	E08			PRF	
2CA 49	2	C		4.0	CK	SA	-	CV	A01	CS	CN-2592.11.	H09			OPS	
2CA 50A	2	B		4.0	GA	EL	0	Q			CN-2592.11.	J09			PRF	
2CA 50A	2	B		4.0	GA	EL	0	MT			CN-2592.11.	J09	20		PRF	
2CA 50A	2	B		4.0	GA	EL	0	RP			CN-2592.11.	J09			PRF	
2CA 52	3	B		4.0	GL	AD	0	Q			CN-2592.11.	D07			PRF	
2CA 52	3	B		4.0	GL	AD	0	FS			CN-2592.11.	D07			PRF	
2CA 52	3	B		4.0	GL	AD	0	MT			CN-2592.11.	D07	20		PRF	
2CA 52	3	B		4.0	GL	AD	0	RP			CN-2592.11.	D07			PRF	

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VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 0

VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2CA 53	2	C		4.0	CK	SA	-	CV	A01	CS	CN-2592.11.	J07			OPS	
2CA 54B	2	B		4.0	GA	EL	0	Q			CN-2592.11.	J07	20		PRF	
2CA 54B	2	B		4.0	GA	EL	0	MT			CN-2592.11.	J07			PRF	
2CA 54B	2	B		4.0	GA	EL	0	RP			CN-2592.11.	J07			PRF	
2CA 56	3	B		4.0	GL	AD	0	Q			CN-2592.11.	J05			PRF	
2CA 56	3	B		4.0	GL	AD	0	FS			CN-2592.11.	J05			PRF	
2CA 56	3	B		4.0	GL	AD	0	MT			CN-2592.11.	J05	20		PRF	
2CA 56	3	B		4.0	GL	AD	0	RP			CN-2592.11.	J05			PRF	
2CA 57	2	C		4.0	CK	SA	-	CV	A01	CS	CN-2592.11.	J06			OPS	
2CA 58A	2	B		4.0	GA	EL	0	Q			CN-2592.11.	J06			PRF	
2CA 58A	2	B		4.0	GA	EL	0	MT			CN-2592.11.	J06	20		PRF	
2CA 58A	2	B		4.0	GA	EL	0	RP			CN-2592.11.	J06			PRF	
2CA 60	3	B		4.0	GL	AD	0	Q			CN-2592.11.	J02			PRF	
2CA 60	3	B		4.0	GL	AD	0	FS			CN-2592.11.	J02			PRF	
2CA 60	3	B		4.0	GL	AD	0	MT			CN-2592.11.	J02	20		PRF	
2CA 60	3	B		4.0	GL	AD	0	RP			CN-2592.11.	J02			PRF	
2CA 61	2	C		4.0	CK	SA	-	CV	A01	CS	CN-2592.11.	H02			OPS	
2CA 62A	2	B		4.0	GA	EL	0	Q			CN-2592.11.	H02			PRF	
2CA 62A	2	B		4.0	GA	EL	0	MT			CN-2592.11.	H02	20		PRF	
2CA 62A	2	B		4.0	GA	EL	0	RP			CN-2592.11.	H02			PRF	
2CA 64	3	B		4.0	GL	AD	0	Q			CN-2592.11.	C03			PRF	
2CA 64	3	B		4.0	GL	AD	0	FS			CN-2592.11.	C03			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2CA 64	3	B		4.0	GL	AD	0	MT			CN-2592.11.	C03	20		PRF	
2CA 64	3	B		4.0	GL	AD	0	RP			CN-2592.11.	C03			PRF	
2CA 65	2	C		4.0	CK	SA	-	CV	1A01	CS	CN-2592.11.	D02			OPS	
2CA 66B	2	B		4.0	GA	EL	C	Q			CN-2592.11.	F02			PRF	
2CA 66B	2	B		4.0	GA	EL	C	MT			CN-2592.11.	F02	20		PRF	
2CA 66B	2	B		4.0	GA	EL	C	RP			CN-2592.11.	F02			PRF	
2CA 85B	3	B		6.0	GA	EL	C	Q			CN-2592.10.	D08			PRF	
2CA 85B	3	B		6.0	GA	EL	C	MT			CN-2592.10.	D08	10		PRF	
2CA 85B	3	B		6.0	GA	EL	C	RP			CN-2592.10.	D08			PRF	
2CA116A	3	B		6.0	GA	EL	C	Q			CN-2592.10.	D08			PRF	
2CA116A	3	B		6.0	GA	EL	C	MT			CN-2592.10.	D08	10		PRF	
2CA116A	3	B		6.0	GA	EL	C	RP			CN-2592.10.	D08			PRF	
2CA149	2	B		4.0	GA	P	C	Q			CN-2592.11.	F01		F	PRF	
2CA149	2	B		4.0	GA	P	C	FS			CN-2592.11.	F01		F	PRF	
2CA149	2	B		4.0	GA	P	C	MT			CN-2592.11.	F01	5	F	PRF	
2CA149	2	B		4.0	GA	P	C	RP			CN-2592.11.	F01		F	PRF	
2CA150	2	B		4.0	GA	P	C	Q			CN-2592.11.	J07		F	PRF	
2CA150	2	B		4.0	GA	P	C	FS			CN-2592.11.	J07		F	PRF	
2CA150	2	B		4.0	GA	P	C	MT			CN-2592.11.	J07	5	F	PRF	
2CA150	2	B		4.0	GA	P	C	RP			CN-2592.11.	J07		F	PRF	
2CA151	2	B		4.0	GA	P	C	Q			CN-2592.11.	J08		F	PRF	
2CA151	2	B		4.0	GA	P	C	FS			CN-2592.11.	J08		F	PRF	
2CA151	2	B		4.0	GA	P	C	MT			CN-2592.11.	J08	5	F	PRF	
2CA151	2	B		4.0	GA	P	C	RP			CN-2592.11.	J08		F	PRF	
2CA152	2	B		4.0	GA	P	C	Q			CN-2592.11.	F14		F	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2CA152	2	B		4.0	GA	P	C	FS			CN-2592.11.	F14		F	PRF	
2CA152	2	B		4.0	GA	P	C	MT			CN-2592.11.	F14	5	F	PRF	
2CA152	2	B		4.0	GA	P	C	RP			CN-2592.11.	F14		F	PRF	
2CA171	3	C		6.0	CK	SA	-	CV	A02	RR	CN-2592.10.	C07			O/M	
2CA172	3	C		6.0	CK	SA	-	CV	A02	RR	CN-2592.10.	C08			O/M	
2CA185	2	B		2.0	GA	P	0	Q			CN-2592.11.	D01		F	PRF	
2CA185	2	B		2.0	GA	P	0	FS			CN-2592.11.	D01		F	PRF	
2CA185	2	B		2.0	GA	P	0	MT			CN-2592.11.	D01	5	F	PRF	
2CA185	2	B		2.0	GA	P	0	RP			CN-2592.11.	D01		F	PRF	
2CA186	2	B		2.0	GA	P	0	Q			CN-2592.11.	I06		F	PRF	
2CA186	2	B		2.0	GA	P	0	FS			CN-2592.11.	I06		F	PRF	
2CA186	2	B		2.0	GA	P	0	MT			CN-2592.11.	I06	5	F	PRF	
2CA186	2	B		2.0	GA	P	0	RP			CN-2592.11.	I06		F	PRF	
2CA187	2	B		2.0	GA	P	0	Q			CN-2592.11.	I10		F	PRF	
2CA187	2	B		2.0	GA	P	0	FS			CN-2592.11.	I10		F	PRF	
2CA187	2	B		2.0	GA	P	0	MT			CN-2592.11.	I10	5	F	PRF	
2CA187	2	B		2.0	GA	P	0	RP			CN-2592.11.	I10		F	PRF	
2CA188	2	B		2.0	GA	P	0	Q			CN-2592.11.	D14		F	PRF	
2CA188	2	B		2.0	GA	P	0	FS			CN-2592.11.	D14		F	PRF	
2CA188	2	B		2.0	GA	P	0	MT			CN-2592.11.	D14	5	F	PRF	
2CA188	2	B		2.0	GA	P	0	RP			CN-2592.11.	D14		F	PRF	
2CF 33	2	B		18.	GA	H	0	Q	B01	CS	CN-2591.11.	F13		F	PRF	
2CF 33	2	B		18.	GA	H	0	MT	B01	CS	CN-2591.11.	F13	5	F	PRF	
2CF 33	2	B		18.	GA	H	0	RP			CN-2591.11.	F13		F	PRF	
2CF 42	2	B		18.	GA	H	0	Q	B01	CS	CN-2591.11.	F09		F	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2CF 42	2	B		18.	GA	H	O	MT	B01	CS	CN-2591.11.	F09	5	F	PRF	
2CF 42	2	B		18.	GA	H	O	RP			CN-2591.11.	F09		F	PRF	
2CF 51	2	B		18.	GA	H	O	Q	B01	CS	CN-2591.11.	F06		F	PRF	
2CF 51	2	B		18.	GA	H	O	MT	B01	CS	CN-2591.11.	F06	5	F	PRF	
2CF 51	2	B		18.	GA	H	O	RP			CN-2591.11.	F06		F	PRF	
2CF 60	2	B		18.	GA	H	O	Q	B01	CS	CN-2591.11.	F03		F	PRF	
2CF 60	2	B		18.	GA	H	O	MT	B01	CS	CN-2591.11.	F03	5	F	PRF	
2CF 60	2	B		18.	GA	H	O	RP			CN-2591.11.	F03		F	PRF	
2CF 87	2	B		2.0	GA	AD	C	Q			CN-2591.11.	F02		F	PRF	
2CF 87	2	B		2.0	GA	AD	C	FS			CN-2591.11.	F02		F	PRF	
2CF 87	2	B		2.0	GA	AD	C	MT			CN-2591.11.	F02	5	F	PRF	
2CF 87	2	B		2.0	GA	AD	C	RP			CN-2591.11.	F02		F	PRF	
2CF 88	2	B		2.0	GA	AD	C	Q			CN-2591.11.	F06		F	PRF	
2CF 88	2	B		2.0	GA	AD	C	FS			CN-2591.11.	F06		F	PRF	
2CF 88	2	B		2.0	GA	AD	C	MT			CN-2591.11.	F06	5	F	PRF	
2CF 88	2	B		2.0	GA	AD	C	RP			CN-2591.11.	F06		F	PRF	
2CF 89	2	B		2.0	GA	AD	C	Q			CN-2591.11.	F09		F	PRF	
2CF 89	2	B		2.0	GA	AD	C	FS			CN-2591.11.	F09		F	PRF	
2CF 89	2	B		2.0	GA	AD	C	MT			CN-2591.11.	F09	5	F	PRF	
2CF 89	2	B		2.0	GA	AD	C	RP			CN-2591.11.	F09		F	PRF	
2CF 90	2	B		2.0	GA	AD	C	Q			CN-2591.11.	F13		F	PRF	
2CF 90	2	B		2.0	GA	AD	C	FS			CN-2591.11.	F13		F	PRF	
2CF 90	2	B		2.0	GA	AD	C	MT			CN-2591.11.	F13	5	F	PRF	
2CF 90	2	B		2.0	GA	AD	C	RP			CN-2591.11.	F13		F	PRF	
2FD 22	3	B		2.0	GL	S	C	Q			CN-2609.30.	J13			PRF	
2FD 22	3	B		2.0	GL	S	C	FS			CN-2609.30.	J13			PRF	
2FD 22	3	B		2.0	GL	S	C	MT			CN-2609.30.	J13	2		PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2FD 62	3	B		2.0	GL	S	C	Q			CN-2609.31.	J12			PRF	
2FD 62	3	B		2.0	GL	S	C	FS			CN-2609.31.	J12			PRF	
2FD 62	3	B		2.0	GL	S	C	MT			CN-2609.31.	J12	2		PRF	
2FW 01A	2	B		8.0	GA	EL	C	Q			CN-2571.10.	J13			PRF	
2FW 01A	2	B		8.0	GA	EL	C	MT			CN-2571.10.	J13	10		PRF	
2FW 01A	2	A		8.0	GA	EL	C	RP			CN-2571.10.	J13			PRF	
2FW 04	2	A	X	6.0	GA	M	LC	LT			CN-2571.10.	L07			PRF	
2FW 05	2	AC	X	6.0	CK	SA	-	LT			CN-2571.10.	L05			PRF	
2FW 11	2	A	X	4.0	PL	M	LC	LT			CN-2571.10.	J04			PRF	
2FW 13	2	A	X	4.0	PL	M	LC	LT			CN-2571.10.	J05			PRF	
2FW 27A	2	B		12.	GA	EL	O	Q			CN-2571.10.	F03			PRF	
2FW 27A	2	B		12.	GA	EL	O	MT			CN-2571.10.	F03	15		PRF	
2FW 27A	2	B		12.	GA	EL	O	RP			CN-2571.10.	F03			PRF	
2FW 28	2	C		12.	CK	SA	-	CV	AA1	CZ	CN-2571.10.	F02			O/P	
2FW 32B	2	B		8.0	GA	EL	C	Q			CN-2571.10.	J13			PRF	
2FW 32B	2	B		8.0	GA	EL	C	MT			CN-2571.10.	J13	10		PRF	
2FW 32B	2	B		8.0	GA	EL	C	RP			CN-2571.10.	J13			PRF	
2FW 33A	2	B		2.0	GL	EL	O	Q			CN-2571.10.	B08			PRF	
2FW 33A	2	B		2.0	GL	EL	O	MT			CN-2571.10.	B08	10		PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2FW 33A	2	B		2.0	GL	EL	O	RP			CN-2571.10.	B08		S	PRF	
2FW 49B	2	B		2.0	GL	EL	O	Q			CN-2571.10.	B08		S	PRF	
2FW 49B	2	B		2.0	GL	EL	O	MT			CN-2571.10.	B08	10	S	PRF	
2FW 49B	2	B		2.0	GL	EL	O	RP			CN-2571.10.	B08		S	PRF	
2FW 52	-	C		4.0	CK	SA	-	CV			CN-2571.10.	E10			PRF	
2FW 55B	2	B		12.	GA	EL	C	Q			CN-2571.10.	H03			PRF	
2FW 55B	2	B		12.	GA	EL	C	MT			CN-2571.10.	H03	15		PRF	
2FW 55B	2	B		12.	GA	EL	C	RP			CN-2571.10.	H03			PRF	
2FW 56	2	C		12.	CK	SA	-	CV	AA1	CZ	CN-2571.10.	H02			O/P	
2IACV5340	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-2499.1A.10.1				PRF	
2IACV5340	2	AC		1.0	CK	SA	-	LT			CN-2499.1A.10.1				PRF	
2IACV5350	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-2499.1A.10.1				PRF	
2IACV5350	2	AC		1.0	CK	SA	-	LT			CN-2499.1A.10.1				PRF	
2IACV5360	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-2499.1A.10.1				PRF	
2IACV5360	2	AC		1.0	CK	SA	-	LT			CN-2499.1A.10.1				PRF	
2IACV5370	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-2499.1A.10.1				PRF	
2IACV5370	2	AC		1.0	CK	SA	-	LT			CN-2499.1A.10.1				PRF	
2IACV5380	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-2499.1A.10.1				PRF	
2IACV5380	2	AC		1.0	CK	SA	-	LT			CN-2499.1A.10.1				PRF	

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2IACV5390	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-2499.IA.10.1				PRF	
2IACV5390	2	AC		1.0	CK	SA	-	LT			CN-2499.IA.10.1				PRF	
2IASV5080	2	A		0.5	GL	S	0	Q			CN-2499.IA.10.1			S	PRF	
2IASV5080	2	A		0.5	GL	S	0	FS			CN-2499.IA.10.1			S	PRF	
2IASV5080	2	A		0.5	GL	S	0	LT			CN-2499.IA.10.1			S	PRF	
2IASV5080	2	A		0.5	GL	S	0	MT	Y01	RR	CN-2499.IA.10.1		2	S	PRF	
2IASV5080	2	A		0.5	GL	S	0	RP	Y01	RR	CN-2499.IA.10.1			S	PRF	
2IASV5160	2	A		0.5	GL	S	0	Q			CN-2499.IA.10.1			S	PRF	
2IASV5160	2	A		0.5	GL	S	0	FS			CN-2499.IA.10.1			S	PRF	
2IASV5160	2	A		0.5	GL	S	0	LT			CN-2499.IA.10.1			S	PRF	
2IASV5160	2	A		0.5	GL	S	0	MT	Y01	RR	CN-2499.IA.10.1		2	S	PRF	
2IASV5160	2	A		0.5	GL	S	0	RP	Y01	RR	CN-2499.IA.10.1			S	PRF	
2KC 1A	3	B		20.	BF	EL	0	Q			CN-2573.10.	C06		S	PRF	
2KC 1A	3	B		20.	BF	EL	0	MT			CN-2573.10.	C06	60	S	PRF	
2KC 1A	3	B		20.	BF	EL	0	RP			CN-2573.10.	C06		S	PRF	
2KC 2B	3	B		20.	BF	EL	0	Q			CN-2573.10.	C09		S	PRF	
2KC 2B	3	B		20.	BF	EL	0	MT			CN-2573.10.	C09	60	S	PRF	
2KC 2B	3	B		20.	BF	EL	0	RP			CN-2573.10.	C09		S	PRF	
2KC 3A	3	B		10.	GA	EL	0	Q			CN-2573.10.	C06		P	PRF	
2KC 3A	3	B		10.	GA	EL	0	MT			CN-2573.10.	C06	10	P	PRF	
2KC 3A	3	B		10.	GA	EL	0	RP			CN-2573.10.	C06		P	PRF	
2KC 5	3	C		16.	CK	SA	-	CV			CN-2573.10.	E04			PRF	
2KC 8	3	C		16.	CK	SA	-	CV			CN-2573.10.	E04			PRF	
2KC 11	3	C		16.	CK	SA	-	CV			CN-2573.10.	E10			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF ROST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2KC 14	3	C		16.	CK	SA	-	CV			CN-2573.10.	E11			PRF	
2KC 18B	3	B		10.	GA	EL	0	Q			CN-2573.10.	C09		P	PRF	
2KC 18B	3	B		10.	GA	EL	0	MT			CN-2573.10.	C09	10	P	PRF	
2KC 18B	3	B		10.	GA	EL	0	RP			CN-2573.10.	C09		P	PRF	
2KC 47	2	AC	X	.75	RL/CK	SA	-	LT			CN-2573.15.	H03			PRF	
2KC 50A	3	B		20.	BF	EL	0	Q			CN-2573.10.	K07		S	PRF	
2KC 50A	3	B		20.	BF	EL	0	MT			CN-2573.10.	K07	60	S	PRF	
2KC 50A	3	B		20.	BF	EL	0	RP			CN-2573.10.	K07		S	PRF	
2KC 53B	3	B		20.	BF	EL	0	Q			CN-2573.10.	K08		S	PRF	
2KC 53B	3	B		20.	BF	EL	0	MT			CN-2573.10.	K08	60	S	PRF	
2KC 53B	3	B		20.	BF	EL	0	RP			CN-2573.10.	K08		S	PRF	
2KC 56A	3	B		16.	BF	EL	C	Q			CN-2573.11.	E05		S	PRF	
2KC 56A	3	B		16.	BF	EL	C	MT			CN-2573.11.	E05	60	S	PRF	
2KC 56A	3	B		16.	BF	EL	C	RP			CN-2573.11.	E05		S	PRF	
2KC 57A	3	B		12.	GL	AD	0	Q			CN-2573.11.	D01		S	PRF	
2KC 57A	3	B		12.	GL	AD	0	FS			CN-2573.11.	D01		S	PRF	
2KC 57A	3	B		12.	GL	AD	0	MT			CN-2573.11.	D01	90	S	PRF	
2KC 57A	3	B		12.	GL	AD	0	RP			CN-2573.11.	D01		S	PRF	
2KC 81B	3	B		16.	BF	EL	C	Q			CN-2573.11.	E11		S	PRF	
2KC 81B	3	B		16.	BF	EL	C	MT			CN-2573.11.	E11	60	S	PRF	
2KC 81B	3	B		16.	BF	EL	C	RP			CN-2573.11.	E11		S	PRF	
2KC 82B	3	B		12.	GL	AD	0	Q			CN-2573.11.	D14		S	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2KC 82B	3	B		12.	GL	AD	0	FS			CN-2573.11.	D14		S	PRF	
2KC 82B	3	B		12.	GL	AF	0	MT			CN-2573.11.	D14	90		PRF	
2KC 82B	3	B		12.	GL	AD	0	RP			CN-2573.11.	D14		S	PRF	
2KC228B	3	B		8.0	GA	EL	0	Q			CN-2573.10.	L08		P	PRF	
2KC228B	3	B		8.0	GA	EL	0	MT			CN-2573.10.	L08	10		PRF	
2KC228B	3	B		8.0	GA	EL	0	RP			CN-2573.10.	L08		P	PRF	
2KC230A	3	B		8.0	GA	EL	0	Q			CN-2573.10.	L07		P	PRF	
2KC230A	3	B		8.0	GA	EL	0	MT			CN-2573.10.	L07	10		PRF	
2KC230A	3	B		8.0	GA	EL	0	RP			CN-2573.10.	L07		P	PRF	
2KC305B	2	B		4.0	GA	EL	0	Q			CN-2573.13.	D13		T	PRF	
2KC305B	2	B		4.0	GA	EL	0	MT			CN-2573.13.	D13	20		PRF	
2KC305B	2	B		4.0	GA	EL	0	RP			CN-2573.13.	D13		T	PRF	
2KC315B	2	B		4.0	GA	EL	C	Q			CN-2573.13.	L12		T	PRF	
2KC315B	2	B		4.0	GA	EL	C	MT			CN-2573.13.	L12	20		PRF	
2KC315B	2	B		4.0	GA	EL	C	RP			CN-2573.13.	L12		T	PRF	
2KC320A	2	B		4.0	GA	EL	0	Q	C01	CS	CN-2573.13.	B10		T	PRF	
2KC320A	2	B		4.0	GA	EL	0	MT	C01	CS	CN-2573.13.	B10	20		PRF	
2KC320A	2	B		4.0	GA	EL	0	RP			CN-2573.13.	B10		T	PRF	
2KC332B	2	B		4.0	GA	EL	0	Q	C01	CS	CN-2573.13.	E02		T	PRF	
2KC332B	2	B		4.0	GA	EL	0	MT	C01	CS	CN-2573.13.	E02	20		PRF	
2KC332B	2	B		4.0	GA	EL	0	RP			CN-2573.13.	E02		T	PRF	
2KC333A	2	B		4.0	GA	EL	0	Q	C01	CS	CN-2573.13.	G02		T	PRF	
2KC333A	2	B		4.0	GA	EL	0	MT	C01	CS	CN-2573.13.	G02	20		PRF	
2KC333A	2	B		4.0	GA	EL	0	RP			CN-2573.13.	G02		T	PRF	
2KC338B	2	B		8.0	GA	EL	0	Q	C02	CS	CN-2573.13.	D12		P	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2KC338B	2	B		8.0	GA	EL	0	MT	C02	CS	CN-2573.13.	D12	40	P	PRF	
2KC338B	2	B		8.0	GA	EL	0	RP			CN-2573.13.	D12		P	PRF	
2KC424B	2	B		8.0	GA	EL	0	Q	C02	CS	CN-2573.13.	L05		P	PRF	
2KC424B	2	B		8.0	GA	EL	0	MT	C02	CS	CN-2573.13.	L05	40	P	PRF	
2KC424B	2	B		8.0	GA	EL	0	RP			CN-2573.13.	L05		P	PRF	
2KC425A	2	B		8.0	GA	EL	0	Q	C02	CS	CN-2573.13.	L06		P	PRF	
2KC425A	2	B		8.0	GA	EL	0	MT	C02	CS	CN-2573.13.	L06	40	P	PRF	
2KC425A	2	B		8.0	GA	EL	0	RP			CN-2573.13.	L06		P	PRF	
2KC429B	2	A		2.0	GL	EL	0	Q			CN-2573.15.	H02		T	PRF	
2KC429B	2	A		2.0	GL	EL	0	LT			CN-2573.15.	H02		T	PRF	
2KC429B	2	A		2.0	GL	EL	0	MT			CN-2573.15.	H02	10	T	PRF	
2KC429B	2	A		2.0	GL	EL	0	RP			CN-2573.15.	H02		T	PRF	
2KC430A	2	A		2.0	GL	EL	0	Q			CN-2573.15.	J03		T	PRF	
2KC430A	2	A		2.0	GL	EL	0	LT			CN-2573.15.	J03		T	PRF	
2KC430A	2	A		2.0	GL	EL	0	MT			CN-2573.15.	J03	10	T	PRF	
2KC430A	2	A		2.0	GL	EL	0	RP			CN-2573.15.	J03		T	PRF	
2KD 6	3	C		8.0	CK	SA	-	CV	X01	RR	CN-2609.10.	J10			O/M	
2KD 21	3	C		8.0	CK	SA	-	CV	X01	RR	CN-2609.10.	E10			O/M	
2KF101B	2	B		4.0	GA	EL	C	Q			CN-2570.10.	H13		S	PRF	
2KF101B	2	B		4.0	GA	EL	C	MT			CN-2570.10.	H13	10	S	PRF	
2KF101B	2	B		4.0	GA	EL	C	RP			CN-2570.10.	H13		S	PRF	
2KF103A	2	B		4.0	GA	EL	C	Q			CN-2570.10.	H12		S	PRF	
2KF103A	2	B		4.0	GA	EL	C	MT			CN-2570.10.	H12	10	S	PRF	
2KF103A	2	B		4.0	GA	EL	C	RP			CN-2570.10.	H12		S	PRF	

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2MIMV5231	2	A		0.5	GL	S	O	FS			CN-2499.MI.19.				T	PRF
2MIMV6470	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10				PRF
2MIMV6471	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10				PRF
2MIMV6480	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10				PRF
2MIMV6481	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10				PRF
2MIMV6490	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10				PRF
2MIMV6491	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10				PRF
2MISV5230	2	A		0.5	GL	S	O	Q			CN-2499.MI.19.				T	PRF
2MISV5230	2	A		0.5	GL	S	O	FS			CN-2499.MI.19.				T	PRF
2MISV5230	2	A		0.5	GL	S	O	LT			CN-2499.MI.19.				T	PRF
2MISV5230	2	A		0.5	GL	S	O	MT			CN-2499.MI.19.		2		T	PRF
2MISV5230	2	A		0.5	GL	S	O	RP			CN-2499.MI.19.				T	PRF
2MISV5231	2	A		0.5	GL	S	O	Q			CN-2499.MI.19.				T	PRF
2MISV5231	2	A		0.5	GL	S	O	FS			CN-2499.MI.19.				T	PRF
2MISV5231	2	A		0.5	GL	S	O	LT			CN-2499.MI.19.				T	PRF
2MISV5231	2	A		0.5	GL	S	O	MT			CN-2499.MI.19.		2		T	PRF
2MISV5231	2	A		0.5	GL	S	O	RP			CN-2499.MI.19.				T	PRF
2MISV5232	2	A		0.5	GL	S	O	Q			CN-2499.MI.19.				T	PRF
2MISV5232	2	A		0.5	GL	S	O	FS			CN-2499.MI.19.				T	PRF

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NISV5232	2	A		0.5	GL	S	0	LT			CN-2499.MI.19.			T	PRF	
2NISV5232	2	A		0.5	GL	S	0	MT			CN-2499.MI.19.		2	T	PRF	
2NISV5232	2	A		0.5	GL	S	0	RP			CN-2499.MI.19.			T	PRF	
2NISV5233	2	A		0.5	GL	S	0	Q			CN-2499.MI.19.			T	PRF	
2NISV5233	2	A		0.5	GL	S	0	FS			CN-2499.MI.19.			T	PRF	
2NISV5233	2	A		0.5	GL	S	0	LT			CN-2499.MI.19.			T	PRF	
2NISV5233	2	P		0.5	GL	S	0	MT			CN-2499.MI.19.		2	T	PRF	
2NISV5233	2	A		0.5	GL	S	0	RP			CN-2499.MI.19.			T	PRF	
2NB260B	2	A		1.0	GL	EL	C	Q			CN-2556.20.	G04		T	PRF	
2NB260B	2	A		1.0	GL	EL	C	LT			CN-2556.20.	G04		T	PRF	
2NB260B	2	A		1.0	GL	EL	C	MT			CN-2556.20.	G04	10	T	PRF	
2NB260B	2	A		1.0	GL	EL	C	RP			CN-2556.20.	G04		T	PRF	
2NB262	2	AC		.75	CK	SA	-	CV	D01	RF	CN-2556.20.	G06			PRF	
2NB262	2	AC		.75	CK	SA	-	LT			CN-2556.20.	G06			PRF	
2NC 1	1	C		6.0	RL	SA	-	SRV			CN-2553.11.	K03			MNT	
2NC 2	1	C		6.0	RL	SA	-	SRV			CN-2553.11.	K04			MNT	
2NC 3	1	C		6.0	RL	SA	-	SRV			CN-2553.11.	K06			MNT	
2NC 32B	1	B		4.0	GL	P	C	Q	E02	CS	CN-2553.11.	G04			PRF	
2NC 32B	1	B		4.0	GL	P	C	FS	E02	CS	CN-2553.11.	G04			PRF	
2NC 32B	1	B		4.0	GL	P	C	MT	E02	CS	CN-2553.11.	G04	3		PRF	
2NC 32B	1	B		4.0	GL	P	C	RP			CN-2553.11.	G04			PRF	
2NC 34A	1	B		4.0	GL	P	C	Q	E02	CS	CN-2553.11.	G03			PRF	
2NC 34A	1	B		4.0	GL	P	C	FS	E02	CS	CN-2553.11.	G03			PRF	
2NC 34A	1	B		4.0	GL	P	C	MT	E02	CS	CN-2553.11.	G03	3		PRF	
2NC 34A	1	B		4.0	GL	P	C	RP			CN-2553.11.	G03			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NC 36B	1	B		4.0	GL	P	C	Q	E02	CS	CN-2553.11.	G02			PRF	
2NC 36B	1	B		4.0	GL	P	C	FS	E02	CS	CN-2553.11.	G02			PRF	
2NC 36B	1	B		4.0	GL	P	C	MT	E02	CS	CN-2553.11.	G02	3		PRF	
2NC 36B	1	B		4.0	GL	P	C	RP			CN-2553.11.	G02			PRF	
2NC 53B	2	A		1.0	GL	EL	C	Q			CN-2553.11.	K11		T	PRF	
2NC 53B	2	A		1.0	GL	EL	C	LT			CN-2553.11.	K11		T	PRF	
2NC 53B	2	A		1.0	GL	EL	C	MT			CN-2553.11.	K11	10	T	PRF	
2NC 53B	2	A		1.0	GL	EL	C	RP			CN-2553.11.	K11		T	PRF	
2NC 54A	2	A		1.0	GL	EL	C	Q			CN-2553.11.	K09		T	PRF	
2NC 54A	2	A		1.0	GL	EL	C	LT			CN-2553.11.	K09		T	PRF	
2NC 54A	2	A		1.0	GL	EL	C	MT			CN-2553.11.	K09	10	T	PRF	
2NC 54A	2	A		1.0	GL	EL	C	RP			CN-2553.11.	K09		T	PRF	
2NC 56B	2	B		3.0	GA	EL	C	Q			CN-2553.11.	I13		T	PRF	
2NC 56B	2	B		3.0	GA	EL	C	MT			CN-2553.11.	I13	10	T	PRF	
2NC 56B	2	B		3.0	GA	EL	C	RP			CN-2553.11.	I13		T	PRF	
2NC 57	2	AC		3.0	CK	SA	-	CV	E01	RF	CN-2553.11.	I12			PRF	
2NC 57	2	AC		3.0	CK	SA	-	LT			CN-2553.11.	I12			PRF	
2NC141	2	A	X	2.0	GA	M	LC	LT			CN-2553.13.	J08			PRF	
2NC142	2	A	X	2.0	GA	M	LC	LT			CN-2553.13.	K08			PRF	
2NC195B	2	A		2.0	GA	EL	C	Q			CN-2553.13.	E07		T	PRF	
2NC195B	2	A		2.0	GA	EL	C	LT			CN-2553.13.	E07		T	PRF	
2NC195B	2	A		2.0	GA	EL	C	MT			CN-2553.13.	E07	10	T	PRF	
2NC195B	2	A		2.0	GA	EL	C	RP			CN-2553.13.	E07		T	PRF	

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2NC196A	2	A		2.0	GA	EL	C	Q			CN-2553.13.	D07		T	PRF	
2NC196A	2	A		2.0	GA	EL	C	LT			CN-2553.13.	D07		T	PRF	
2NC196A	2	A		2.0	GA	EL	C	MT			CN-2553.13.	D07	10	T	PRF	
2NC196A	2	A		2.0	GA	EL	C	RP			CN-2553.13.	D07		T	PRF	
2NC250A	1	B		1.0	GL	EL	C	Q	E03	CS	CN-2553.11.	L07			PRF	
2NC250A	1	B		1.0	GL	EL	C	MT	E03	CS	CN-2553.11.	L07	10		PRF	
2NC250A	1	B		1.0	GL	EL	C	RP			CN-2553.11.	L07			PRF	
2NC251B	1	B		1.0	GL	EL	C	Q	E03	CS	CN-2553.11.	L06			PRF	
2NC251B	1	B		1.0	GL	EL	C	MT	E03	CS	CN-2553.11.	L06	10		PRF	
2NC251B	1	B		1.0	GL	EL	C	RP			CN-2553.11.	L06			PRF	
2NC252B	1	B		1.0	GL	EL	C	Q	E03	CS	CN-2553.11.	K07			PRF	
2NC252B	1	B		1.0	GL	EL	C	MT	E03	CS	CN-2553.11.	K07	10		PRF	
2NC252B	1	B		1.0	GL	EL	C	RP			CN-2553.11.	K07			PRF	
2NC253A	1	B		1.0	GL	EL	C	Q	E03	CS	CN-2553.11.	K06			PRF	
2NC253A	1	B		1.0	GL	EL	C	MT	E03	CS	CN-2553.11.	K06	10		PRF	
2NC253A	1	B		1.0	GL	EL	C	RP			CN-2553.11.	K06			PRF	
2NC31B	1	B		4.0	GA	EL	O	Q			CN-2553.11.	F04			PRF	
2NC31B	1	B		4.0	GA	EL	O	MT			CN-2553.11.	F04	10		PRF	
2NC31B	1	B		4.0	GA	EL	O	RP			CN-2553.11.	F04			PRF	
2NC33A	1	B		4.0	GA	EL	O	Q			CN-2553.11.	F03			PRF	
2NC33A	1	B		4.0	GA	EL	O	MT			CN-2553.11.	F03	10		PRF	
2NC33A	1	B		4.0	GA	EL	O	RP			CN-2553.11.	F03			PRF	
2NC35B	1	B		4.0	GA	EL	O	Q			CN-2553.11.	F02			PRF	
2NC35B	1	B		4.0	GA	EL	O	MT			CN-2553.11.	F02	10		PRF	
2NC35B	1	B		4.0	GA	EL	O	RP			CN-2553.11.	F02			PRF	

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2ND 1B	1	A		12.	GA	EL	C	Q	F01	CS	CN-2561.10.	L13			PRF	
2ND 1B	1	A		12.	GA	EL	C	LT		BV	CN-2561.10.	L13			PRF	
2ND 1B	1	A		12.	GA	EL	C	MT	F01	CS	CN-2561.10.	L13	60		PRF	
2ND 1B	1	A		12.	GA	EL	C	RP			CN-2561.10.	L13			PRF	
2ND 2A	1	A		12.	GA	EL	C	Q	F01	CS	CN-2561.10.	J13			PRF	
2ND 2A	1	A		12.	GA	EL	C	LT		BV	CN-2561.10.	J13			PRF	
2ND 2A	1	A		12.	GA	EL	C	MT	F01	CS	CN-2561.10.	J13	60		PRF	
2ND 2A	1	A		12.	GA	EL	C	RP			CN-2561.10.	J13			PRF	
2ND 10	2	C		8.0	CK	SA	-	CV	F03	CZ	CN-2561.10.	G10			P/O	
2ND 25A	2	B		2.0	GL	EL	C	Q			CN-2561.10.	E13			PRF	
2ND 25A	2	B		2.0	GL	EL	C	MT			CN-2561.10.	E13	15		PRF	
2ND 25A	2	B		2.0	GL	EL	C	RP			CN-2561.10.	E13			PRF	
2ND 26	2	B		8.0	BF	AD	O	Q			CN-2561.10.	G04		S	PRF	
2ND 26	2	B		8.0	BF	AD	O	FS			CN-2561.10.	G04		S	PRF	
2ND 26	2	B		8.0	BF	AD	O	MT			CN-2561.10.	G04	90	S	PRF	
2ND 26	2	B		8.0	BF	AD	O	RP			CN-2561.10.	G04		S	PRF	
2ND 27	2	B		8.0	BF	AD	C	Q			CN-2561.10.	J06		S	PRF	
2ND 27	2	B		8.0	BF	AD	C	FS			CN-2561.10.	J06		S	PRF	
2ND 27	2	B		8.0	BF	AD	C	MT			CN-2561.10.	J06	90	S	PRF	
2ND 27	2	B		8.0	BF	AD	C	RP			CN-2561.10.	J06		S	PRF	
2ND 28A	2	B		8.0	GA	EL	C	Q			CN-2561.10.	H04			PRF	
2ND 28A	2	B		8.0	GA	EL	C	MT			CN-2561.10.	H04	40		PRF	
2ND 28A	2	B		8.0	GA	EL	C	RP			CN-2561.10.	H04			PRF	
2ND 32A	2	B		8.0	GA	EL	O	Q	F04	CS	CN-2561.10.	E03			PRF	
2ND 32A	2	B		8.0	GA	EL	O	MT	F04	CS	CN-2561.10.	E03	10		PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2ND 32A	2	B		8.0	GA	EL	O	RF			CN-2561.10.	E03			PRF	
2ND 36B	1	A		12.	GA	EL	C	Q	F02	CS	CN-2561.11.	L13			PRF	
2ND 36B	1	A		12.	GA	EL	C	LT		BV	CN-2561.11.	L13			PRF	
2ND 36B	1	A		12.	GA	EL	C	MT	F02	CS	CN-2561.11.	L13	60		PRF	
2ND 36B	1	A		12.	GA	EL	C	RP			CN-2561.11.	L13			PRF	
2ND 37A	1	A		12.	GA	EL	C	Q	F02	CS	CN-2561.11.	J13			PRF	
2ND 37A	1	A		12.	GA	EL	C	LT		BV	CN-2561.11.	J13			PRF	
2ND 37A	1	A		12.	GA	EL	C	MT	F02	CS	CN-2561.11.	J13	60		PRF	
2ND 37A	1	A		12.	GA	EL	C	RF			CN-2561.11.	J13			PRF	
2ND 44	2	C		8.0	CK	SA	-	CV	F03	CZ	CN-2561.11.	G10			PRF	
2ND 59B	2	B		2.0	GL	EL	C	Q			CN-2561.11.	E13			PRF	
2ND 59B	2	B		2.0	GL	EL	C	MT			CN-2561.11.	E13	15		PRF	
2ND 59B	2	B		2.0	GL	EL	C	RP			CN-2561.11.	E13			PRF	
2ND 60	2	B		8.0	BF	AD	O	Q			CN-2561.11.	G04		S	PRF	
2ND 60	2	B		8.0	BF	AD	O	FS			CN-2561.11.	G04		S	PRF	
2ND 60	2	B		8.0	BF	AD	O	MT			CN-2561.11.	G04	90	S	PRF	
2ND 60	2	B		8.0	BF	AD	O	RP			CN-2561.11.	G04		S	PRF	
2ND 61	2	B		8.0	BF	AD	C	Q			CN-2561.11.	J06		S	PRF	
2ND 61	2	B		8.0	BF	AD	C	FS			CN-2561.11.	J06		S	PRF	
2ND 61	2	B		8.0	BF	AD	C	MT			CN-2561.11.	J06	90	S	PRF	
2ND 61	2	B		8.0	BF	AD	C	RP			CN-2561.11.	J06		S	PRF	
2ND 65B	2	B		8.0	GA	EL	O	Q	F04	CS	CN-2561.11.	E03			PRF	
2ND 65B	2	B		8.0	GA	EL	O	MT	F04	CS	CN-2561.11.	E03	10		PRF	
2ND 65B	2	B		8.0	GA	EL	O	RP			CN-2561.11.	E03			PRF	
2NF228A	2	A		4.0	GA	AD	O	Q			CN-2558.20.	H14		T	PRF	

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2NF228A	2	A		4.0	GA	AD	0	FS			CN-2558.20.	H14		T	PRF	
2NF228A	2	A		4.0	GA	AD	0	LT			CN-2558.20.	H14		T	PRF	
2NF228A	2	A		4.0	GA	AD	0	MT			CN-2556.20.	H14	10	T	PRF	
2NF228A	2	A		4.0	GA	AD	0	RP			CN-2558.20.	H14		T	PRF	
2NF229	2	AC		4.0	CK	SA	-	CV	G01	RF	CN-2558.20.	F14			PRF	
2NF229	2	AC		4.0	CK	SA	-	LT			CN-2558.20.	F14			PRF	
2NF233B	2	A		4.0	GA	EL	0	Q			CN-2558.20.	L10		T	PRF	
2NF233B	2	A		4.0	GA	EL	0	LT			CN-2558.20.	L10		T	PRF	
2NF233B	2	A		4.0	GA	EL	0	MT			CN-2558.20.	L10	10	T	PRF	
2NF233B	2	A		4.0	GA	EL	0	RP			CN-2558.20.	L10		T	PRF	
2NF234A	2	A		4.0	GA	AD	0	Q			CN-2558.20.	L12		T	PRF	
2NF234A	2	A		4.0	GA	AD	0	FS			CN-2558.20.	L12		T	PRF	
2NF234A	2	A		4.0	GA	AD	0	LT			CN-2558.20.	L12		T	PRF	
2NF234A	2	A		4.0	GA	AD	0	MT			CN-2558.20.	L12	10	T	PRF	
2NF234A	2	A		4.0	GA	AD	0	RP			CN-2558.20.	L12		T	PRF	
2NF235	2	AC	X	0.5	RL/CK	SA	-	LT			CN-2558.20.	K10			PRF	
2NI 9A	2	B		4.0	GA	EL	C	Q	H20	CS	CN-2562.10.	C09		S	PRF	
2NI 9A	2	B		4.0	GA	EL	C	MT	H20	CS	CN-2562.10.	C09	10	S	PRF	
2NI 9A	2	B		4.0	GA	EL	C	RP			CN-2562.10.	C09		S	PRF	
2NI 10B	2	B		4.0	GA	EL	C	Q	H20	CS	CN-2562.10.	C06		S	PRF	
2NI 10B	2	B		4.0	GA	EL	C	MT	H20	CS	CN-2562.10.	C06	10	S	PRF	
2NI 10B	2	B		4.0	GA	EL	C	RP			CN-2562.10.	C06		S	PRF	
2NI 12	2	C		3.0	CK	SA	-	CV	H01	RF	CN-2562.10.	F08			PRF	
2NI 15	1	C		1.5	CK	SA	-	CV	H02	RF	CN-2562.10.	I11			PRF	

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2NI 17	1	C		1.5	CK	SA	-	CV	H02	RF	CN-2562.10.	I09			PRF	
2NI 19	1	C		1.5	CK	SA	-	CV	H02	RF	CN-2562.10.	I07			PRF	
2NI 21	1	C		1.5	CK	SA	-	CV	H02	RF	CN-2562.10.	I05			PRF	
2NI 47A	2	A		1.0	GL	EL	C	Q			CN-2562.11.	K09		T	PRF	
2NI 47A	2	A		1.0	GL	EL	C	LT			CN-2562.11.	K09		T	PRF	
2NI 47A	2	A		1.0	GL	EL	C	MT			CN-2562.11.	K09	10	T	PRF	
2NI 47A	2	A		1.0	GL	EL	C	RP			CN-2562.11.	K09		T	PRF	
2NI 48	2	AC		1.0	CK	SA	-	CV	H04	RF	CN-2562.11.	K08			PRF	
2NI 48	2	AC		1.0	CK	SA	-	LT			CN-2562.11.	K08			PRF	
2NI 54A	1	B	X	10.	GL	EL	O	RP			CN-2562.11.	G02		S	PRF	
2NI 59	1	AC		10.	CK	SA	-	CV	H05	RR	CN-2562.11.	D02			O/M	
2NI 59	1	AC		10.	CK	SA	-	LT		BV	CN-2562.11.	D02			PRF	
2NI 60	1	AC		10.	CK	SA	-	CV	H03	RR	CN-2562.11.	C02			O/M	
2NI 60	1	AC		10.	CK	SA	-	LT		BV	CN-2562.11.	C02			PRF	
2NI 65B	1	B	X	10.	GL	EL	O	RP			CN-2562.11.	F05		S	PRF	
2NI 70	1	AC		10.	CK	SA	-	CV	H05	RR	CN-2562.11.	D05			O/M	
2NI 70	1	AC		10.	CK	SA	-	LT		BV	CN-2562.11.	D05			PRF	

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2NI 71	1	AC		10.	CK	SA	-	CV	H03	RR	CN-2562.11.	C05			O/M	
2NI 71	1	AC		10.	CK	SA	-	LT		BV	CN-2562.11.	C05			PRF	
2NI 76A	1	B	X	10.	GL	EL	O	RP			CN-2562.11.	G07		S	PRF	
2NI 81	1	AC		10.	CK	SA	-	CV	H05	RR	CN-2562.11.	D07			O/M	
2NI 81	1	AC		10.	CK	SA	-	LT		BV	CN-2562.11.	D07			PRF	
2NI 82	1	AC		10.	CK	SA	-	CV	H03	RR	CN-2562.11.	C07			O/M	
2NI 82	1	AC		10.	CK	SA	-	LT		BV	CN-2562.11.	C07			PRF	
2NI 88B	1	B	X	10.	GL	EL	O	RP			CN-2562.11.	G10		S	PRF	
2NI 93	1	AC		10.	CK	SA	-	CV	H05	RR	CN-2562.11.	D10			O/M	
2NI 93	1	AC		10.	CK	SA	-	LT		BV	CN-2562.11.	D10			PRF	
2NI 94	1	AC		10.	CK	SA	-	CV	H03	RR	CN-2562.11.	C10			O/M	
2NI 94	1	AC		10.	CK	SA	-	LT		BV	CN-2562.11.	C10			PRF	
2NI 95A	2	A		.75	GL	EL	C	Q			CN-2562.11.	F13		T	PRF	
2NI 95A	2	A		.75	GL	EL	C	LT			CN-2562.11.	F13		T	PRF	
2NI 95A	2	A		.75	GL	EL	C	MT			CN-2562.11.	F13	10	T	PRF	
2NI 95A	2	A		.75	GL	EL	C	RP			CN-2562.11.	F13		T	PRF	
2NI 96B	2	A		.75	GL	EL	C	Q			CN-2562.11.	H13		T	PRF	
2NI 96B	2	A		.75	GL	EL	C	LT			CN-2562.11.	H13		T	PRF	
2NI 96B	2	A		.75	GL	EL	C	MT			CN-2562.11.	H13	10	T	PRF	
2NI 96B	2	A		.75	GL	EL	C	RP			CN-2562.11.	H13		T	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NI100B	2	B		8.0	GA	EL	0	Q	H07	CS	CN-2562.12.	G14			PRF	
2NI100B	2	B		8.0	GA	EL	0	MT	H07	CS	CN-2562.12.	G14	10		PRF	
2NI100B	2	B		8.0	GA	EL	0	RP			CN-2562.12.	G14			PRF	
2NI101	2	C		8.0	CK	SA	-	CV	H06	RR	CN-2562.12.	G13			PRF	
2NI103A	2	B		6.0	GA	EL	0	Q			CN-2562.12.	I13			PRF	
2NI103A	2	B		6.0	GA	EL	0	MT			CN-2562.12.	I13	10		PRF	
2NI103A	2	B		6.0	GA	EL	0	RP			CN-2562.12.	I13			PRF	
2NI114	2	C		2.0	CK	SA	-	CV			CN-2562.12.	I08			PRF	
2NI115A	2	B		2.0	GL	EL	0	Q			CN-2562.12.	H08			PRF	
2NI115A	2	B		2.0	GL	EL	0	MT			CN-2562.12.	H08	10		PRF	
2NI115A	2	B		2.0	GL	EL	0	RP			CN-2562.12.	H08			PRF	
2NI116	2	C		4.0	CK	SA	-	CV	H09	RF	CN-2562.12.	J08			PRF	
2NI118A	2	B		4.0	GA	EL	0	Q			CN-2562.12.	I06			PRF	
2NI118A	2	B		4.0	GA	EL	0	MT			CN-2562.12.	I06	10		PRF	
2NI118A	2	B		4.0	GA	EL	0	RP			CN-2562.12.	I06			PRF	
2NI120B	2	A		.75	GL	EL	C	Q			CN-2562.12.	I05		T	PRF	
2NI120B	2	A		.75	GL	EL	C	LT			CN-2562.12.	I05		T	PRF	
2NI120B	2	A		.75	GL	EL	C	MT			CN-2562.12.	I05	10	T	PRF	
2NI120B	2	A		.75	GL	EL	C	RP			CN-2562.12.	I05		T	PRF	
2NI121A	2	B		4.0	GA	EL	C	Q			CN-2562.12.	J05			PRF	
2NI121A	2	B		4.0	GA	EL	C	MT			CN-2562.12.	J05	10		PRF	
2NI121A	2	B		4.0	GA	EL	C	RP			CN-2562.12.	J05			PRF	

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2N1122B	2	B		.75	GL	EL	C	Q			CN-2562.12.	K04		T	PRF	
2N1122B	2	B		.75	GL	EL	C	MT			CN-2562.12.	K04	10	T	PRF	
2N1122B	2	B		.75	GL	EL	C	RP			CN-2562.12.	K04		T	PRF	
2N1124	1	AC		2.0	CK	SA	-	CV	H10	RF	CN-2562.12.	I04			PRF	
2N1124	1	AC		2.0	CK	SA	-	LT		BV	CN-2562.12.	I04			PRF	
2N1125	1	AC		8.0	CK	SA	-	CV	H11	CS	CN-2562.12.	H04			OPS	
2N1125	1	AC		8.0	CK	SA	-	LT		BV	CN-2562.12.	H04			PRF	
2N1126	1	AC		6.0	CK	SA	-	CV	H11	CS	CN-2562.12.	I01			OPS	
2N1126	1	AC		6.0	CK	SA	-	LT		BV	CN-2562.12.	I01			PRF	
2N1128	1	AC		2.0	CK	SA	-	CV	H10	RF	CN-2562.12.	K04			PRF	
2N1128	1	AC		2.0	CK	SA	-	LT		BV	CN-2562.12.	K04			PRF	
2N1129	1	AC		8.0	CK	SA	-	CV	H11	CS	CN-2562.12.	J03			OPS	
2N1129	1	AC		8.0	CK	SA	-	LT		BV	CN-2562.12.	J03			PRF	
2N1134	1	AC		6.0	CK	SA	-	CV	H11	CS	CN-2562.12.	K01			OPS	
2N1134	1	AC		6.0	CK	SA	-	LT		BV	CN-2562.12.	K01			PRF	
2N1135B	2	B		6.0	GA	EL	0	Q			CN-2562.12.	E13			PRF	
2N1135B	2	B		6.0	GA	EL	0	MT			CN-2562.12.	E13	10		PRF	
2N1135B	2	B		6.0	GA	EL	0	RP			CN-2562.12.	E13			PRF	
2N1136B	2	B		6.0	GA	EL	C	Q			CN-2562.12.	D13			PRF	
2N1136B	2	B		8.0	GA	EL	C	MT			CN-2562.12.	D13	10		PRF	
2N1136B	2	B		8.0	GA	EL	C	RP			CN-2562.12.	D13			PRF	

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2NI143	2	C		2.0	CK	SA	-	CV			CN-2562.12.	E08			PRF	
2NI144A	2	B		2.0	GL	EL	O	Q			CN-2562.12.	F08			PRF	
2NI144A	2	B		2.0	GL	EL	O	MT			CN-2562.12.	F08	10		PRF	
2NI144A	2	B		2.0	GL	EL	O	RP			CN-2562.12.	F08			PRF	
2NI147B	2	B		2.0	GL	EL	O	Q	H08	CS	CN-2562.12.	G10			PRF	
2NI147B	2	B		2.0	GL	EL	O	MT	H08	CS	CN-2562.12.	G10	10		PRF	
2NI147B	2	B		2.0	GL	EL	O	RP			CN-2562.12.	G10			PRF	
2NI148	2	C		4.0	CK	SA	-	CV	H09	RF	CN-2562.12.	D08			PRF	
2NI150B	2	B		4.0	GA	EL	O	Q			CN-2562.12.	F06			PRF	
2NI150B	2	B		4.0	GA	EL	O	MT			CN-2562.12.	F06	10		PRF	
2NI150B	2	B		4.0	GA	EL	O	RP			CN-2562.12.	F06			PRF	
2NI152B	2	B		4.0	GA	EL	C	Q			CN-2562.12.	D05			PRF	
2NI152B	2	B		4.0	GA	EL	C	MT			CN-2562.12.	D05	10		PRF	
2NI152B	2	B		4.0	GA	EL	C	RP			CN-2562.12.	D05			PRF	
2NI153A	2	B		.75	GL	EL	C	Q			CN-2562.12.	D04		T	PRF	
2NI153A	2	B		.75	GL	EL	C	MT			CN-2562.12.	D04	10	T	PRF	
2NI153A	2	B		.75	GL	EL	C	RP			CN-2562.12.	D04		T	PRF	
2NI154B	2	B		.75	GL	EL	C	Q			CN-2562.12.	H03		T	PRF	
2NI154B	2	B		.75	GL	EL	C	MT			CN-2562.12.	H03	10	T	PRF	
2NI154B	2	B		.75	GL	EL	C	RP			CN-2562.12.	H03		T	PRF	
2NI156	1	AC		2.0	CK	SA	-	CV	H10	RF	CN-2562.12.	E03			PRF	
2NI156	1	AC		2.0	CK	SA	-	LT		BV	CN-2562.12.	E03			PRF	

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2NI157	1	AC		6.0	CK	SA	-	CV	H10	RF	CN-2562.12.	E01			PRF	
2NI157	1	AC		6.0	CK	SA	-	LT		BV	CN-2562.12.	E01			PRF	
2NI159	1	AC		2.0	CK	SA	-	CV	H10	RF	CN-2562.12.	C03			PRF	
2NI159	1	AC		2.0	CK	SA	-	LT		BV	CN-2562.12.	C03			PRF	
2NI160	1	AC		6.0	CK	SA	-	CV	H10	RF	CN-2562.12.	C01			PRF	
2NI160	1	AC		6.0	CK	SA	-	LT		BV	CN-2562.12.	C01			PRF	
2NI162A	2	B		4.0	GA	EL	0	Q	H12	CS	CN-2562.13.	J08			PRF	
2NI162A	2	B		4.0	GA	EL	0	MT	H12	CS	CN-2562.13.	J08	10		PRF	
2NI162A	2	B		4.0	GA	EL	0	RP			CN-2562.13.	J08			PRF	
2NI165	1	AC		2.0	CK	SA	-	CV	H13	RF	CN-2562.13.	G03			PRF	
2NI165	1	AC		2.0	CK	SA	-	LT		BV	CN-2562.13.	G03			PRF	
2NI167	1	AC		2.0	CK	SA	-	CV	H13	RF	CN-2562.13.	G06			PRF	
2NI167	1	AC		2.0	CK	SA	-	LT		BV	CN-2562.13.	G06			PRF	
2NI169	1	AC		2.0	CK	SA	-	CV	H13	RF	CN-2562.13.	G09			PRF	
2NI169	1	AC		2.0	CK	SA	-	LT		BV	CN-2562.13.	G09			PRF	
2NI171	1	AC		2.0	CK	SA	-	CV	H13	RF	CN-2562.13.	G12			PRF	
2NI171	1	AC		2.0	CK	SA	-	LT		BV	CN-2562.13.	G12			PRF	
2NI173A	2	B		8.0	GA	EL	0	Q	H18	CS	CN-2562.13.	E10			PRF	
2NI173A	2	B		8.0	GA	EL	0	MT	H18	CS	CN-2562.13.	E10	60		PRF	
2NI173A	2	B		8.0	GA	EL	0	RP			CN-2562.13.	E10			PRF	

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2NI175	1	AC		6.0	CK	SA	-	CV	H14	CS	CN-2562.13.	F11			OPS	
2NI175	1	AC		6.0	CK	SA	-	LT		BV	CN-2562.13.	F11			PRF	
2NI176	1	AC		6.0	CK	SA	-	CV	H14	CS	CN-2562.13.	F09			OPS	
2NI176	1	AC		6.0	CK	SA	-	LT		BV	CN-2562.13.	F09			PRF	
2NI178B	2	B		8.0	GA	EL	0	Q	H18	CS	CN-2562.13.	E04			PRF	
2NI178B	2	B		8.0	GA	EL	0	MT	H18	CS	CN-2562.13.	E04	60		PRF	
2NI178B	2	B		8.0	GA	EL	0	RP			CN-2562.13.	E04			PRF	
2NI180	1	AC		6.0	CK	SA	-	CV	H14	CS	CN-2562.13.	F05			OPS	
2NI180	1	AC		6.0	CK	SA	-	LT		BV	CN-2562.13.	F05			PRF	
2NI181	1	AC		6.0	CK	SA	-	CV	H14	CS	CN-2562.13.	F04			OPS	
2NI181	1	AC		6.0	CK	SA	-	LT		BV	CN-2562.13.	F04			PRF	
2NI183B	2	B		12.	GA	EL	C	Q	H19	CS	CN-2562.12.	G04			PRF	
2NI183B	2	B		12.	GA	EL	C	MT	H19	CS	CN-2562.12.	G04	20		PRF	
2NI183B	2	B		12.	GA	EL	C	RP			CN-2562.12.	G04			PRF	
2NI184B	2	B		18.	GA	EL	C	Q	H21	CS	CN-2562.13.	C10			PRF	
2NI184B	2	B		18.	GA	EL	C	MT	H21	CS	CN-2562.13.	C10	22		PRF	
2NI184B	2	B		18.	GA	EL	C	RP			CN-2562.13.	C10			PRF	
2NI185A	2	B		18.	GA	EL	C	Q	H21	CS	CN-2562.13.	C05			PRF	
2NI185A	2	B		18.	GA	EL	C	MT	H21	CS	CN-2562.13.	C05	22		PRF	
2NI185A	2	B		18.	GA	EL	C	RP			CN-2562.13.	C05			PRF	
2NI242B	2	B		12.	GA	AD	0	Q			CN-2562.14.	C09			PRF	
2NI242B	2	B		12.	GA	AD	0	MT			CN-2562.14.	C09	5		PRF	

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2NI242B	2	B		12.	GA	AD	0	RP			CN-2562.14.	C09			PRF	
2NI243A	2	B		12.	GA	AD	0	Q			CN-2562.14.	C07			PRF	
2NI243A	2	B		12.	GA	AD	0	MT			CN-2562.14.	C07	5		PRF	
2NI243A	2	B		12.	GA	AD	0	RP			CN-2562.14.	C07			PRF	
2NI244B	2	B		12.	GA	AD	0	Q			CN-2562.14.	K08			PRF	
2NI244B	2	B		12.	GA	AD	0	MT			CN-2562.14.	K08	5		PRF	
2NI244B	2	B		12.	GA	AD	0	RP			CN-2562.14.	K08			PRF	
2NI245A	2	B		12.	GA	AD	0	Q			CN-2562.14.	K07			PRF	
2NI245A	2	B		12.	GA	AD	0	MT			CN-2562.14.	K07	5		PRF	
2NI245A	2	B		12.	GA	AD	0	RP			CN-2562.14.	K07			PRF	
2NI248	1	AC		12.	CK	SA	-	CV	H15	RF	CN-2562.14.	C05			MNT	
2NI248	1	AC		12.	CK	SA	-	LT		BV	CN-2562.14.	C05			PRF	
2NI249	1	AC		12.	CK	SA	-	CV	H15	RF	CN-2562.14.	K05			MNT	
2NI249	1	AC		12.	CK	SA	-	LT		BV	CN-2562.14.	K05			PRF	
2NI250	1	AC		8.0	CK	SA	-	CV	H15	RF	CN-2562.14.	J03			MNT	
2NI250	1	AC		8.0	CK	SA	-	LT		BV	CN-2562.14.	J03			PRF	
2NI251	1	AC		8.0	CK	SA	-	CV	H15	RF	CN-2562.14.	L03			MNT	
2NI251	1	AC		8.0	CK	SA	-	LT		BV	CN-2562.14.	L03			PRF	
2NI252	1	AC		8.0	CK	SA	-	CV	H15	RF	CN-2562.14.	D03			MNT	
2NI252	1	AC		8.0	CK	SA	-	LT		BV	CN-2562.14.	D03			PRF	
2NI253	1	AC		8.0	CK	SA	-	CV	H15	RF	CN-2562.14.	B03			MNT	
2NI253	1	AC		8.0	CK	SA	-	LT		BV	CN-2562.14.	B03			PRF	

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2N1255B	2	A		2.0	GL	EL	C	Q			CN-2562.14.	G07		T	PRF	
2N1255B	2	A		2.0	GL	EL	C	LT			CN-2562.14.	G07		T	PRF	
2N1255B	2	A		2.0	GL	EL	C	MT			CN-2562.14.	G07	10	T	PRF	
2N1255B	2	A		2.0	GL	EL	C	RP			CN-2562.14.	G07		T	PRF	
2N1258A	2	A		.75	GL	EL	C	Q			CN-2562.14.	F06		T	PRF	
2N1258A	2	A		.75	GL	EL	C	LT			CN-2562.14.	F06		T	PRF	
2N1258A	2	A		.75	GL	EL	C	MT			CN-2562.14.	F06	10	T	PRF	
2N1258A	2	A		.75	GL	EL	C	RP			CN-2562.14.	F06		T	PRF	
2N1264B	2	A		2.0	GL	EL	C	Q			CN-2562.14.	F04		T	PRF	
2N1264B	2	A		2.0	GL	EL	C	LT			CN-2562.14.	F04		T	PRF	
2N1264B	2	A		2.0	GL	EL	C	MT			CN-2562.14.	F04	10	T	PRF	
2N1264B	2	A		2.0	GL	EL	C	RP			CN-2562.14.	F04		T	PRF	
2N1266A	1	A		2.0	GL	EL	C	Q			CN-2562.14.	E03		T	PRF	
2N1266A	1	A		2.0	GL	EL	C	LT			CN-2562.14.	E03		T	PRF	
2N1266A	1	A		2.0	GL	EL	C	MT			CN-2562.14.	E03	10	T	PRF	
2N1266A	1	A		2.0	GL	EL	C	RP			CN-2562.14.	E03		T	PRF	
2N1267A	1	A		2.0	GL	EL	C	Q			CN-2562.14.	D04		T	PRF	
2N1267A	1	A		2.0	GL	EL	C	LT			CN-2562.14.	D04		T	PRF	
2N1267A	1	A		2.0	GL	EL	C	MT			CN-2562.14.	D04	10	T	PRF	
2N1267A	1	A		2.0	GL	EL	C	RP			CN-2562.14.	D04		T	PRF	
2N1332A	2	B		6.0	GA	EL	C	Q			CN-2562.12.	L12			PRF	
2N1332A	2	B		6.0	GA	EL	C	MT			CN-2562.12.	L12	10		PRF	
2N1332A	2	B		6.0	GA	EL	C	RP			CN-2562.12.	L12			PRF	
2N1333B	2	B		6.0	GA	EL	C	Q			CN-2562.12.	K12			PRF	
2N1333B	2	B		6.0	GA	EL	C	MT			CN-2562.12.	K12	10		PRF	
2N1333B	2	B		6.0	GA	EL	C	RP			CN-2562.12.	K12			PRF	

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2NI334B	2	B		6.0	GA	EL	O	Q			1CN-2562.12.	K11			PRF	
2NI334B	2	B		6.0	GA	EL	O	MT			1CN-2562.12.	K11	10		PRF	
2NI334B	2	B		6.0	GA	EL	O	RP			1CN-2562.12.	K11			PRF	
2NI336	2	A	X	1.5	RL	SA	C	LT			1CN-2562.14.	E05			PRF	
2NI342	2	C		8.0	CK	SA	-	CV	H16	RR	1CN-2562.12.	D13			O/P	
2NI351	1	C		1.5	CK	SA	-	CV	H02	RF	1CN-2562.10.	I11			PRF	
2NI352	1	C		1.5	CK	SA	-	CV	H02	RF	1CN-2562.10.	I09			PRF	
2NI353	1	C		1.5	CK	SA	-	CV	H02	RF	1CN-2562.10.	I07			PRF	
2NI354	1	C		1.5	CK	SA	-	CV	H02	RF	1CN-2562.10.	I05			PRF	
2NI391	2	A	X	.75	GL	AD	C	LT		BV	1CN-2562.11.	C03			PRF	
2NI392	2	A	X	.75	GL	AD	C	LT		BV	1CN-2562.11.	C04			PRF	
2NI393	2	A	X	.75	GL	AD	C	LT		BV	1CN-2562.11.	C08			PRF	
2NI394	2	A	X	.75	GL	AD	C	LT		BV	1CN-2562.11.	C11			PRF	

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2NI395	2	A	X	.75	GL	AD	C	LT		BV	CN-2562.12.	E01			PRF	
2NI396	2	A	X	.75	GL	AD	C	LT		BV	CN-2562.12.	I01			PRF	
2NI397	2	A	X	.75	GL	AD	C	LT		BV	CN-2562.12.	I01			PRF	
2NI398	2	A	X	.75	GL	AD	C	LT		BV	CN-2562.12.	C01			PRF	
2NI438A	2	B		1.0	GL	EL	C	Q			CN-2562.11.	K01			PRF	
2NI438A	2	B		1.0	GL	EL	C	MT			CN-2562.11.	K01	10		PRF	
2NI438A	2	B		1.0	GL	EL	C	RP			CN-2562.11.	K01			PRF	
2NI439B	2	B		1.0	GL	EL	C	Q			CN-2562.11.	K05			PRF	
2NI439B	2	B		1.0	GL	EL	C	MT			CN-2562.11.	K05	10		PRF	
2NI439B	2	B		1.0	GL	EL	C	RP			CN-2562.11.	K05			PRF	
2NM 03A	2	A		.5	GL	EL	O	Q			CN-2572.10.	K03		T	PRF	
2NM 03A	2	A		.5	GL	EL	O	LT			CN-2572.10.	K03		T	PRF	
2NM 03A	2	A		.5	GL	EL	O	MT			CN-2572.10.	K03	10	T	PRF	
2NM 03A	2	A		.5	GL	EL	O	RP			CN-2572.10.	K03		T	PRF	
2NM 06A	2	A		.5	GL	EL	C	Q			CN-2572.10.	J03		T	PRF	
2NM 06A	2	A		.5	GL	EL	C	LT			CN-2572.10.	J03		T	PRF	
2NM 06A	2	A		.5	GL	EL	C	MT			CN-2572.10.	J03	10	T	PRF	
2NM 06A	2	A		.5	GL	EL	C	RP			CN-2572.10.	J03		T	PRF	
2NM 07B	2	A		.75	GL	EL	C	Q			CN-2572.10.	K06		T	PRF	
2NM 07B	2	A		.75	GL	EL	C	LT			CN-2572.10.	K06		T	PRF	
2NM 07B	2	A		.75	GL	EL	C	MT			CN-2572.10.	K06	10	T	PRF	
2NM 07B	2	A		.75	GL	EL	C	RP			CN-2572.10.	K06		T	PRF	

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2NM 22A	2	A		.5	GL	EL	O	Q			CN-2572.10.	K11		T	PRF	
2NM 22A	2	A		.5	GL	EL	O	LT			CN-2572.10.	K11		T	PRF	
2NM 22A	2	A		.5	GL	EL	O	MT			CN-2572.10.	K11	10	T	PRF	
2NM 22A	2	A		0.5	GL	EL	O	RP			CN-2572.10.	K11		T	PRF	
2NM 25A	2	A		.5	GL	EL	C	Q			CN-2572.10.	K12		T	PRF	
2NM 25A	2	A		.5	GL	EL	C	LT			CN-2572.10.	K12		T	PRF	
2NM 25A	2	A		.5	GL	EL	C	MT			CN-2572.10.	K12	10	T	PRF	
2NM 25A	2	A		.5	GL	EL	C	RP			CN-2572.10.	K12		T	PRF	
2NM 26B	2	A		.75	GL	EL	O	Q			CN-2572.10.	K08		T	PRF	
2NM 26B	2	A		.75	GL	EL	O	LT			CN-2572.10.	K08		T	PRF	
2NM 26B	2	A		.75	GL	EL	O	MT			CN-2572.10.	K08	10	T	PRF	
2NM 26B	2	A		.75	GL	EL	O	RP			CN-2572.10.	K08		T	PRF	
2NM 69	2	A	X	.75	RL	SA	C	LT			CN-2572.11.	G10			PRF	
2NM 72B	2	A		.5	GL	EL	C	Q			CN-2572.11.	I06		T	PRF	
2NM 72B	2	A		.5	GL	EL	C	LT			CN-2572.11.	I06		T	PRF	
2NM 72B	2	A		.5	GL	EL	C	MT			CN-2572.11.	I06	10	T	PRF	
2NM 72B	2	A		.5	GL	EL	C	RP			CN-2572.11.	I06		T	PRF	
2NM 75B	2	A		0.5	GL	EL	C	Q			CN-2572.11.	I08		T	PRF	
2NM 75B	2	A		.5	GL	EL	C	LT			CN-2572.11.	I08		T	PRF	
2NM 75B	2	A		.5	GL	EL	C	MT			CN-2572.11.	I08	10	T	PRF	
2NM 75B	2	A		.5	GL	EL	C	RP			CN-2572.11.	I08		T	PRF	
2NM 78B	2	A		.5	GL	EL	C	Q			CN-2572.11.	I09		T	PRF	
2NM 78B	2	A		.5	GL	EL	C	LT			CN-2572.11.	I09		T	PRF	
2NM 78B	2	A		.5	GL	EL	C	MT			CN-2572.11.	I09	10	T	PRF	
2NM 78B	2	A		.5	GL	EL	C	RP			CN-2572.11.	I09		T	PRF	
2NM 81B	2	A		.5	GL	EL	C	Q			CN-2572.11.	I11		T	PRF	
2NM 81B	2	A		.5	GL	EL	C	LT			CN-2572.11.	I11		T	PRF	
2NM 81B	2	A		.5	GL	EL	C	MT			CN-2572.11.	I11	10	T	PRF	

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2NM 81B	2	A		.5	GL	EL	C	RP			CN-2572.11.	I11		T	PRF	
2NM 82A	2	A		.5	GL	EL	C	Q			CN-2572.11.	E09		T	PRF	
2NM 82A	2	A		.5	GL	EL	C	LT			CN-2572.11.	E09		T	PRF	
2NM 82A	2	A		.5	GL	EL	C	MT			CN-2572.11.	E09	10	T	PRF	
2NM 82A	2	A		.5	GL	EL	C	RP			CN-2572.11.	E09		T	PRF	
2NM187A	2	B		.5	GL	EL	C	Q			CN-2572.14.	K02		T	PRF	
2NM187A	2	B		.5	GL	EL	C	MT			CN-2572.14.	K02	10	T	PRF	
2NM187A	2	B		.5	GL	EL	C	RP			CN-2572.14.	K02		T	PRF	
2NM190A	2	B		.5	GL	EL	C	Q			CN-2572.14.	K02		T	PRF	
2NM190A	2	B		.5	GL	EL	C	MT			CN-2572.14.	K02	10	T	PRF	
2NM190A	2	B		.5	GL	EL	C	RP			CN-2572.14.	K02		T	PRF	
2NM191B	2	B		.5	GL	EL	C	Q			CN-2572.14.	I02		T	PRF	
2NM191B	2	B		.5	GL	EL	C	MT			CN-2572.14.	I02	10	T	PRF	
2NM191B	2	B		.5	GL	EL	C	RP			CN-2572.14.	I02		T	PRF	
2NM197B	2	B		.5	GL	EL	C	Q			CN-2572.14.	K05		T	PRF	
2NM197B	2	B		.5	GL	EL	C	MT			CN-2572.14.	K05	10	T	PRF	
2NM197B	2	B		.5	GL	EL	C	RP			CN-2572.14.	K05		T	PRF	
2NM200B	2	B		.5	GL	EL	O	Q			CN-2572.14.	K06		T	PRF	
2NM200B	2	B		.5	GL	EL	O	MT			CN-2572.14.	K06	10	T	PRF	
2NM200B	2	B		.5	GL	EL	O	RP			CN-2572.14.	K06		T	PRF	
2NM201A	2	B		.5	GL	EL	O	Q			CN-2572.14.	I06		T	PRF	
2NM201A	2	B		.5	GL	EL	O	MT			CN-2572.14.	I06	10	T	PRF	
2NM201A	2	B		.5	GL	EL	O	RP			CN-2572.14.	I06		T	PRF	
2NM207A	2	B		.5	GL	EL	C	Q			CN-2572.14.	K08		T	PRF	
2NM207A	2	B		.5	GL	EL	C	MT			CN-2572.14.	K08	10	T	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NM207A	2	B		.5	GL	EL	C	RP			CN-2572.14.	K08		T	PRF	
2NM210A	2	B		.5	GL	EL	O	Q			CN-2572.14.	K09		T	PRF	
2NM210A	2	B		.5	GL	EL	O	MT			CN-2572.14.	K09	10	T	PRF	
2NM210A	2	B		.5	GL	EL	O	RP			CN-2572.14.	K09		T	PRF	
2NM211B	2	B		.5	GL	EL	O	Q			CN-2572.14.	I09		T	PRF	
2NM211B	2	B		.5	GL	EL	O	MT			CN-2572.14.	I09	10	T	PRF	
2NM211B	2	B		.5	GL	EL	O	RP			CN-2572.14.	I09		T	PRF	
2NM217B	2	B		.5	GL	EL	O	Q			CN-2572.14.	K11		T	PRF	
2NM217B	2	B		.5	GL	EL	O	MT			CN-2572.14.	K11	10	T	PRF	
2NM217B	2	B		.5	GL	EL	O	RP			CN-2572.14.	K11		T	PRF	
2NM220B	2	B		.5	GL	EL	O	Q			CN-2572.14.	K13		T	PRF	
2NM220B	2	B		.5	GL	EL	O	MT			CN-2572.14.	K13	10	T	PRF	
2NM220B	2	B		.5	GL	EL	O	RP			CN-2572.14.	K13		T	PRF	
2NM221A	2	B		.5	GL	EL	O	Q			CN-2572.14.	I12		T	PRF	
2NM221A	2	B		.5	GL	EL	O	MT			CN-2572.14.	I12	10	T	PRF	
2NM221A	2	B		.5	GL	EL	O	RP			CN-2572.14.	I12		T	PRF	
2NM424	2	AC	X	.5	RL/CK	SA	-	LT			CN-2572.10.	J03			PRF	
2NM425	2	AC	X	.5	RL/CK	SA	-	LT			CN-2572.10.	K12			PRF	
2NS 1B	2	B		12.	GA	EL	C	Q			CN-2563.10.	C13			PRF	
2NS 1B	2	B		12.	GA	EL	C	MT			CN-2563.10.	C13	20		PRF	
2NS 1B	2	B		12.	GA	EL	C	RP			CN-2563.10.	C13			PRF	
2NS 3B	2	B		12.	GA	EL	O	Q			CN-2563.10.	E13			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NS 3B	2	B		12.	GA	EL	O	MT			CN-2563.10.	E13	15		PRF	
2NS 3B	2	B		12.	GA	EL	O	RP			CN-2563.10.	E13			PRF	
2NS 4	2	C		12.	CK	SA	-	CV	I02	RR	CN-2563.10.	E13			P/M	
2NS 12B	2	B		8.0	GA	EL	C	Q			CN-2563.10.	C05		P	PRF	
2NS 12B	2	B		8.0	GA	EL	C	MT			CN-2563.10.	C05	10	P	PRF	
2NS 12B	2	B		8.0	GA	EL	C	RP			CN-2563.10.	C05		P	PRF	
2NS 13	2	C		8.0	CK	SA	-	CV	I01	RF	CN-2563.10.	C03			MNT	
2NS 15B	2	B		8.0	GA	EL	C	Q			CN-2563.10.	E05		P	PRF	
2NS 15B	2	B		8.0	GA	EL	C	MT			CN-2563.10.	E05	10	P	PRF	
2NS 15B	2	B		8.0	GA	EL	C	RP			CN-2563.10.	E05		P	PRF	
2NS 16	2	C		8.0	CK	SA	-	CV	I01	RF	CN-2563.10.	E03			MNT	
2NS 18A	2	B		12.	GA	EL	C	Q			CN-2563.10.	K13			PRF	
2NS 18A	2	B		12.	GA	EL	C	MT			CN-2563.10.	K13	20		PRF	
2NS 18A	2	B		12.	GA	EL	C	RP			CN-2563.10.	K13			PRF	
2NS 20A	2	B		12.	GA	EL	O	Q			CN-2563.10.	I13			PRF	
2NS 20A	2	B		12.	GA	EL	O	MT			CN-2563.10.	I13	15		PRF	
2NS 20A	2	B		12.	GA	EL	O	RP			CN-2563.10.	I13			PRF	
2NS 21	2	C		12.	CK	SA	-	CV	I02	RR	CN-2563.10.	I13			P/M	
2NS 29A	2	B		8.0	GA	EL	C	Q			CN-2563.10.	I05		P	PRF	
2NS 29A	2	B		8.0	GA	EL	C	MT			CN-2563.10.	I05	10	P	PRF	
2NS 29A	2	B		8.0	GA	EL	C	RP			CN-2563.10.	I05		P	PRF	

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2NS 30	2	C		8.0	CK	SA	-	CV	I01	RF	CN-2563.10.	I02			MNT	
2NS 32A	2	B		8.0	GA	EL	C	Q			CN-2563.10.	K05		P	PRF	
2NS 32A	2	B		8.0	GA	EL	C	MT			CN-2563.10.	K05	10	P	PRF	
2NS 32A	2	B		8.0	GA	EL	C	RP			CN-2563.10.	K05		P	PRF	
2NS 33	2	C		8.0	CK	SA	-	CV	I01	RF	CN-2563.10.	K03			MNT	
2NS 38B	2	B		8.0	GA	EL	C	Q			CN-2563.10.	F05			PRF	
2NS 38B	2	B		8.0	GA	EL	C	MT			CN-2563.10.	F05	10		PRF	
2NS 38B	2	B		8.0	GA	EL	C	RP			CN-2563.10.	F05			PRF	
2NS 41	2	C		8.0	CK	SA	-	CV	I01	RF	CN-2563.10.	F03			MNT	
2NS 43A	2	B		8.0	GA	EL	C	Q			CN-2563.10.	H05			PRF	
2NS 43A	2	B		8.0	GA	EL	C	MT			CN-2563.10.	H05	10		PRF	
2NS 43A	2	B		8.0	GA	EL	C	RP			CN-2563.10.	H05			PRF	
2NS 46	2	C		8.0	CK	SA	-	CV	I01	RF	CN-2563.10.	H03			MNT	
2NS 98	2	C		8.0	CK	SA	-	CV	I02	RR	CN-2563.10.	J09			P/M	
2NS 99	2	C		8.0	CK	SA	-	CV	I02	RR	CN-2563.10.	D09			P/M	
2NV 10A	2	B		2.0	GA	AD	O	Q			CN-2554.10.	H08		T	PRF	
2NV 10A	2	B		2.0	GA	AD	O	FS			CN-2554.10.	H08		T	PRF	
2NV 10A	2	B		2.0	GA	AD	O	MT			CN-2554.10.	H08	10	T	PRF	
2NV 10A	2	B		2.0	GA	AD	O	RP			CN-2554.10.	H08		T	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NV 11A	2	B		2.0	GA	AD	C	Q			CN-2554.10.	I09		T	PRF	
2NV 11A	2	B		2.0	GA	AD	C	FS			CN-2554.10.	I09		T	PRF	
2NV 11A	2	B		2.0	GA	AD	C	MT			CN-2554.10.	I09	10	T	PRF	
2NV 11A	2	B		2.0	GA	AD	C	RP			CN-2554.10.	I09		T	PRF	
2NV 13A	2	B		2.0	GA	AD	C	Q			CN-2554.10.	G08		T	PRF	
2NV 13A	2	B		2.0	GA	AD	C	FS			CN-2554.10.	G08		T	PRF	
2NV 13A	2	B		2.0	GA	AD	C	MT			CN-2554.10.	G08	10	T	PRF	
2NV 13A	2	B		2.0	GA	AD	C	RP			CN-2554.10.	G08		T	PRF	
2NV 14	2	A	X	3.0	RL	SA	C	LT			CN-2554.10.	G10			PRF	
2NV 15B	2	A		3.0	GL	EL	0	Q	J01	CS	2554.10.	H12		T	PRF	
2NV 15B	2	A		3.0	GL	EL	0	LT			CN-2554.10.	H12		T	PRF	
2NV 15B	2	A		3.0	GL	EL	0	MT	J01	CS	CN-2554.10.	H12	10	T	PRF	
2NV 15B	2	A		3.0	GL	EL	0	RP			CN-2554.10.	H12		T	PRF	
2NV 89A	2	B		4.0	GA	EL	0	Q	J02	CS	CN-2554.10.	B09		T	PRF	
2NV 89A	2	B		4.0	GA	EL	0	MT	J02	CS	CN-2554.10.	B09	10	T	PRF	
2NV 89A	2	B		4.0	GA	EL	0	RP			CN-2554.10.	B09		T	PRF	
2NV 90	2	AC	X	.75	IRL/CK	SA	-	LT			CN-2554.10.	D09		T	PRF	
2NV 91B	2	B		4.0	GA	EL	0	Q	J02	CS	CN-2554.10.	B12		T	PRF	
2NV 91B	2	B		4.0	GA	EL	0	MT	J02	CS	CN-2554.10.	B12	10	T	PRF	
2NV 91B	2	B		4.0	GA	EL	0	RP			CN-2554.10.	B12		T	PRF	
2NV188A	2	B		4.0	GA	EL	0	Q	J03	CS	CN-2554.11.	C05		S	PRF	
2NV188A	2	B		4.0	GA	EL	0	MT	J03	CS	CN-2554.11.	C05	15	S	PRF	
2NV188A	2	B		4.0	GA	EL	0	RP			CN-2554.11.	C05		S	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NV189B	2	B		4.0	GA	EL	0	Q	J03	CS	CN-2554.11.	C04	15	S	PRF	
2NV189B	2	B		4.0	GA	EL	0	MT	J03	CS	CN-2554.11.	C04		S	PRF	
2NV189B	2	B		4.0	GA	EL	0	RP			CN-2554.11.	C04		S	PRF	
2NV202B	2	B		2.0	GL	EL	0	Q	J07	CS	CN-2554.16.	D01	10		PRF	
2NV202B	2	B		2.0	GL	EL	0	MT	J07	CS	CN-2554.16.	D01			PRF	
2NV202B	2	B		2.0	GL	EL	0	RP			CN-2554.16.	D01			PRF	
2NV203A	2	B		2.0	GL	EL	0	Q	J07	CS	CN-2554.16.	D01	10		PRF	
2NV203A	2	B		2.0	GL	EL	0	MT	J07	CS	CN-2554.16.	D01			PRF	
2NV203A	2	B		2.0	GL	EL	0	RP			CN-2554.16.	D01			PRF	
2NV206	2	B	X	4.0	PL	AD	0	RP			CN-2554.16.	C03			PRF	
2NV218	2	B	X	4.0	PL	AD	0	RP			CN-2554.16.	C06			PRF	
2NV220	2	C		3.0	CK	SA	-	CV			CN-2554.11.	G04			PRF	
2NV252A	2	B		8.0	GA	EL	C	Q			CN-2554.17.	K11	10	S	PRF	
2NV252A	2	B		8.0	GA	EL	C	MT			CN-2554.17.	K11		S	PRF	
2NV252A	2	B		8.0	GA	EL	C	RP			CN-2554.17.	K11		S	PRF	
2NV253B	2	B		8.0	GA	EL	C	Q			CN-2554.17.	K12	10	S	PRF	
2NV253B	2	B		8.0	GA	EL	C	MT			CN-2554.17.	K12		S	PRF	
2NV253B	2	B		8.0	GA	EL	C	RP			CN-2554.17.	K12		S	PRF	
2NV254	2	C		8.0	CK	SA	-	CV	J05	RR	CN-2554.17.	K12			O/P	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NV268	2	C		2.0	CK	SA	-	CV			CN-2554.17.	I05			PRF	
2NV270	2	C		4.0	CK	SA	-	CV	J06	RR	CN-2554.17.	I05			PRF	
2NV288	2	C		2.0	CK	SA	-	CV			CN-2554.17.	E05			PRF	
2NV290	2	C		4.0	CK	SA	-	CV	J06	RR	CN-2554.17.	D05			PRF	
2NV312A	2	B		3.0	GA	EL	0	Q	J04	CS	CN-2554.12.	K05		S	PRF	
2NV312A	2	B		3.0	GA	EL	0	MT	J04	CS	CN-2554.12.	K05	10	S	PRF	
2NV312A	2	B		3.0	GA	EL	0	RP			CN-2554.12.	K05		S	PRF	
2NV314B	2	B		3.0	GA	EL	0	Q	J04	CS	CN-2554.12.	K06		S	PRF	
2NV314B	2	B		3.0	GA	EL	0	MT	J04	CS	CN-2554.12.	K06	10	S	PRF	
2NV314B	2	B		3.0	GA	EL	0	RP			CN-2554.12.	K06		S	PRF	
2NV613	2	C		8.0	CK	SA	-	CV	J08	RR	CN-2554.17.	B13			O/P	
2NV665A	2	B		3.0	GL	EL	C	Q			CN-2554.18.	H01		T	PRF	
2NV665A	2	B		3.0	GL	EL	C	MT			CN-2554.18.	H01	20	T	PRF	
2NV665A	2	B		3.0	GL	EL	C	RP			CN-2554.18.	H01		T	PRF	
2NV672A	2	A		2.0	GL	EL	C	Q			CN-2554.18.	F08		T	PRF	
2NV672A	2	A		2.0	GL	EL	C	LT			CN-2554.18.	F08		T	PRF	
2NV672A	2	A		2.0	GL	EL	C	MT			CN-2554.18.	F08	10	T	PRF	
2NV672A	2	A		2.0	GL	EL	C	RP			CN-2554.18.	F08		T	PRF	
2NV674	2	AC		2.0	CK	SA	-	CV	J09	RF	CN-2554.18.	F10			PRF	
2NV674	2	AC		2.0	CK	SA	-	LT			CN-2554.18.	F10			PRF	

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2NW 06	2	C		1.0	CK	SA	-	CV	K01	RF	CN-2569.10.	G11			OPS	
2NW 08A	2	B		1.0	GA	S	C	Q			CN-2569.10.	G13			PRF	
2NW 08A	2	B		1.0	GA	S	C	FS			CN-2569.10.	G13			PTF	
2NW 08A	2	B		1.0	GA	S	C	MT			CN-2569.10.	G13	2		PRF	
2NW 08A	2	B		1.0	GA	S	C	RP			CN-2569.10.	G13			PRF	
2NW 13A	2	B		1.0	GA	S	C	Q			CN-2569.10.	E09		P	PRF	
2NW 13A	2	B		1.0	GA	S	C	MT			CN-2569.10.	E09	2	P	PRF	
2NW 13A	2	B		1.0	GA	S	C	RP			CN-2569.10.	E09		P	PRF	
2NW 17	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E11			PRF	
2NW 20A	2	B		1.0	GA	S	C	Q			CN-2569.10.	F09		T	PRF	
2NW 20A	2	B		1.0	GA	S	C	MT			CN-2569.10.	F09	2	T	PRF	
2NW 20A	2	B		1.0	GA	S	C	RP			CN-2569.10.	F09		T	PRF	
2NW 21	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E12			PRF	
2NW 24	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E13			PRF	
2NW 27	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E14			PRF	
2NW 35A	2	B		1.0	GL	EL	C	Q			CN-2569.10.	H09		T	PRF	
2NW 35A	2	B		1.0	GL	EL	C	MT			CN-2569.10.	H09	10	T	PRF	
2NW 35A	2	B		1.0	GL	EL	C	RP			CN-2569.10.	H09		T	PRF	
2NW 37	2	C		1.0	CK	SA	-	CV	K02	RF	CN-2569.10.	I09			PRF	

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2NW 40	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	J11			PRF	
2NW 43	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	J10			PRF	
2NW 46A	2	B		1.0	GA	S	C	Q			1CN-2569.10.	K09			P	PRF
2NW 46A	2	B		1.0	GA	S	C	MT			1CN-2569.10.	K09	2		P	PRF
2NW 46A	2	B		1.0	GA	S	C	RP			1CN-2569.10.	K09			P	PRF
2NW 47	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	L10			PRF	
2NW 50	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	L11			PRF	
2NW 53	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	L11			PRF	
2NW 61B	2	B		1.0	GA	S	C	Q			1CN-2569.10.	G02				PRF
2NW 61B	2	B		1.0	GA	S	C	FS			1CB-2569.10.	G02				PRF
2NW 61B	2	B		1.0	GA	S	C	MT			1CN-2569.10.	G02	2			PRF
2NW 61B	2	B		1.0	GA	S	C	RP			1CN-2569.10.	G02				PRF
2NW 63	2	C		1.0	CK	SA	-	CV	K01	RF	1CN-2569.10.	G04				OPS
2NW 68B	2	B		1.0	GA	S	C	Q			1CN-2569.10.	E05			P	PRF
2NW 68B	2	B		1.0	GA	S	C	MT			1CN-2569.10.	E05	2		P	PRF
2NW 68B	2	B		1.0	GA	S	C	RP			1CN-2569.10.	E05			P	PRF
2NW 69B	2	B		1.0	GA	S	C	Q			1CN-2569.10.	F06			T	PRF
2NW 69B	2	B		1.0	GA	S	C	MT			1CN-2569.10.	F06	2		T	PRF
2NW 69B	2	B		1.0	GA	S	C	RP			1CN-2569.10.	F06			T	PRF

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NW 70	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E05			PRF	
2NW 74	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E05			PRF	
2NW 77	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E04			PRF	
2NW 80	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E03			PRF	
2NW 83	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E02			PRF	
2NW 86	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E01			PRF	
2NW 89	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C05			PRF	
2NW 92	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C05			PRF	
2NW 95	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C04			PRF	
2NW 98	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C02			PRF	
2NW101	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C01			PRF	
2NW105B	2	B		1.0	GL	EL	C	Q			CN-2569.10.	H06		T	PRF	
2NW105B	2	B		1.0	GL	EL	C	MT			CN-2569.10.	H06	10	T	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NW105B	2	B		1.0	GL	EL	C	RP			1CN-2569.10.	H06		T	PRF	
2NW107	2	C		1.0	CK	SA	-	CV	K02	RF	1CN-2569.10.	I06			PRF	
2NW109	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	K05			PRF	
2NW110B	2	B		1.0	CA	S	C	Q			1CN-2569.10.	K06		P	PRF	
2NW110B	2	B		1.0	CA	S	C	MT			1CN-2569.10.	K06	2	P	PRF	
2NW110B	2	B		1.0	CA	S	C	RP			1CN-2569.10.	K06		P	PRF	
2NW111	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	J05			PRF	
2NW114	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	L05			PRF	
2NW120	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	J05			PRF	
2NW121	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	E01			PRF	
2NW122	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	E02			PRF	
2NW123	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	E03			PRF	
2NW124	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	E04			PRF	
2NW125	2	C		0.5	CK	SA	-	CV	K02	RF	1CN-2569.10.	E05			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM PSN	TEST REQD	RELF RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NW126	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E05			PRF	
2NW127	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C01			PRF	
2NW128	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C02			PRF	
2NW129	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C04			PRF	
2NW130	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C05			PRF	
2NW131	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C05			PRF	
2NW132	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	K10			PRF	
2NW133	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	K10			PRF	
2NW134	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	K11			PRF	
2NW135	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	J10			PRF	
2NW136	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	J11			PRF	
2NW138	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	D11			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NW139	2	C		0.5	CK	SA	-	CV	IK02	RF	CN-2569.10.	E12			PRF	
2NW140	2	C		0.5	CK	SA	-	CV	IK02	RF	CN-2569.10.	E13			PRF	
2NW141	2	C		0.5	CK	SA	-	CV	IK02	RF	CN-2569.10.	E14			PRF	
2NW145B	2	B		1.0	GA	S	C	Q			CN-2569.10.	C05		P	PRF	
2NW145B	2	B		1.0	GA	S	C	MT			CN-2569.10.	C05	2	P	PRF	
2NW145B	2	B		1.0	GA	S	C	RP			CN-2569.10.	C05		P	PRF	
2NW146B	2	B		1.0	GA	S	C	Q			CN-2569.10.	E02		P	PRF	
2NW146B	2	B		1.0	GA	S	C	MT			CN-2569.10.	E02	2	P	PRF	
2NW146B	2	B		1.0	GA	S	C	RP			CN-2569.10.	E02		P	PRF	
2NW147	2	C		0.5	CK	SA	-	CV	IK02	RF	CN-2569.10.	J07			PRF	
2NW148	2	C		0.5	CK	SA	-	CV	IK02	RF	CN-2569.10.	J07			PRF	
2NW159	2	C		0.5	CK	SA	-	CV	IK02	RF	CN-2569.10.	J12			PRF	
2NW160	2	C		0.5	CK	SA	-	CV	IK02	RF	CN-2569.10.	J12			PRF	
2NW163	2	C		0.5	CK	SA	-	CV	IK02	RF	CN-2569.10.	K12			PRF	
2NW164	2	C		0.5	CK	SA	-	CV	IK02	RF	CN-2569.10.	K12			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NW168	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	K13				PRF
2NW169	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	K13				PRF
2NW171	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	J13				PRF
2NW172	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	J13				PRF
2NW175A	2	B		1.0	GA	S	C	Q			CN-2569.10.	C12				PRF
2NW175A	2	B		1.0	GA	S	C	FS			CN-2569.10.	C12				PRF
2NW175A	2	B		1.0	GA	S	C	MT			CN-2569.10.	C12	2			PRF
2NW175A	2	B		1.0	GA	S	C	RP			CN-2569.10.	C12				PRF
2NW178	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C12				PRF
2NW179	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C12				PRF
2NW180A	2	B		1.0	GA	S	C	Q			CN-2569.10.	C13				PRF
2NW180A	2	B		1.0	GA	S	C	FS			CN-2569.10.	C13				PRF
2NW180A	2	B		1.0	GA	S	C	MT			CN-2569.10.	C13	2			PRF
2NW180A	2	B		1.0	GA	S	C	RP			CN-2569.10.	C13				PRF
2NW183	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C13				PRF
2NW184	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C13				PRF

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NOH POSN	TEST REQD	RELF RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NW185A	2	B		1.0	GA	S	C	Q			CN-2569.10.	C13			PRF	
2NW185A	2	B		1.0	GA	S	C	FS			CN-2569.10.	C13			PRF	
2NW185A	2	B		1.0	GA	S	C	MT			CN-2569.10.	C13	2		PRF	
2NW185A	2	B		1.0	GA	S	C	RP			CN-2569.10.	C13			PRF	
2NW188	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C13			PRF	
2NW189	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C13			PRF	
2NW190A	2	B		0.5	GA	S	C	Q			CN-2569.10.	C14			PRF	
2NW190A	2	B		0.5	GA	S	C	FS			CN-2569.10.	C14			PRF	
2NW190A	2	B		0.5	GA	S	C	MT			CN-2569.10.	C14	2		PRF	
2NW190A	2	B		0.5	GA	S	C	RP			CN-2569.10.	C14			PRF	
2NW193	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C14			PRF	
2NW194	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C14			PRF	
2NW195A	2	B		0.5	GA	S	C	Q			CN-2569.10.	E08			PRF	
2NW195A	2	B		0.5	GA	S	C	FS			CN-2569.10.	E08			PRF	
2NW195A	2	B		0.5	GA	S	C	MT			CN-2569.10.	E08	2		PRF	
2NW195A	2	B		0.5	GA	S	C	RP			CN-2569.10.	E08			PRF	
2NW196	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	F08			PRF	
2NW197	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	F08			PRF	
2NW200A	2	B		0.5	GA	S	C	Q			CN-2569.10.	E08			PRF	
2NW200A	2	B		0.5	GA	S	C	FS			CN-2569.10.	E08			PRF	
2NW200A	2	B		0.5	GA	S	C	MT			CN-2569.10.	E08	2		PRF	
2NW200A	2	B		0.5	GA	S	C	RP			CN-2569.10.	E08			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF ROST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RCS GROUP	REV NO.
2NM201	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	D08				PRF
2NM202	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	D08				PRF
2NM205	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	F07				PRF
2NM206	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	F07				PRF
2NM209	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E07				PRF
2NM210	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	E07				PRF
2NM213	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C07				PRF
2NM214	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C07				PRF
2NM217B	2	B		1.0	GA	S	C	Q			CN-2569.10.	C08				PRF
2NM217B	2	B		1.0	GA	S	C	FS			CN-2569.10.	C08				PRF
2NM217B	2	B		1.0	GA	S	C	MT			CN-2569.10.	C08	2			PRF
2NM217B	2	B		1.0	GA	S	C	RP			CN-2569.10.	C08				PRF
2NM218	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C08				PRF
2NM219	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C08				PRF

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF ROST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NM222B	2	B		1.0	GA	S	C	Q			CN-2569.10.	C09			PRF	
2NM222B	2	B		1.0	GA	S	C	FS			CN-2569.10.	C09			PRF	
2NM222B	2	B		1.0	GA	S	C	MT			CN-2569.10.	C09	2		PRF	
2NM222B	2	B		1.0	GA	S	C	RP			CN-2569.10.	C09			PRF	
2NM223	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C09			PRF	
2NM224	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C09			PRF	
2NM227B	2	B		1.0	GA	S	C	Q			CN-2569.10.	C09			PRF	
2NM227B	2	B		1.0	GA	S	C	FS			CN-2569.10.	C09			PRF	
2NM227B	2	B		1.0	GA	S	C	MT			CN-2569.10.	C09	2		PRF	
2NM227B	2	B		1.0	GA	S	C	RP			CN-2569.10.	C09			PRF	
2NM230	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C09			PRF	
2NM231	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C09			PRF	
2NM232B	2	B		1.0	GA	S	C	Q			CN-2569.10.	C10			PRF	
2NM232B	2	B		1.0	GA	S	C	FS			CN-2569.10.	C10			PRF	
2NM232B	2	B		1.0	GA	S	C	MT			CN-2569.10.	C10	2		PRF	
2NM232B	2	B		1.0	GA	S	C	RP			CN-2569.10.	C10			PRF	
2NM235	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C10			PRF	
2NM236	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C10			PRF	
2NM237B	2	B		1.0	GA	S	C	Q			CN-2569.10.	C11			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2NW237B	2	B		1.0	GA	S	C	FS			CN-2569.10.	C11			PRF	
2NW237B	2	B		1.0	GA	S	C	MT			CN-2569.10.	C11	2		PRF	
2NW237B	2	B		1.0	GA	S	C	RP			CN-2569.10.	C11			PRF	
2NW240	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C11			PRF	
2NW241	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C11			PRF	
2NW242B	2	B		0.5	GA	S	C	Q			CN-2569.10.	C11			PRF	
2NW242B	2	B		0.5	GA	S	C	FS			CN-2569.10.	C11			PRF	
2NW242B	2	B		0.5	GA	S	C	MT			CN-2569.10.	C11	2		PRF	
2NW242B	2	B		0.5	GA	S	C	RP			CN-2569.10.	C11			PRF	
2NW245	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C11			PRF	
2NW246	2	C		0.5	CK	SA	-	CV	K02	RF	CN-2569.10.	C11			PRF	
2RF389B	2	B		4.0	GA	EL	C	Q			CN-1599.21.	D01		T	PRF	
2RF389B	2	B		4.0	GA	EL	C	MT			CN-1599.21.	D01	5	T	PRF	
2RF389B	2	B		4.0	GA	EL	C	RP			CN-1599.21.	D01		T	PRF	
2RF392	2	AC		4.0	CK	SA	-	CV	L01	RF	CN-1599.21.	E03			PRF	
2RF392	2	AC		4.0	CK	SA	-	LT			CN-1599.21.	E03			PRF	
2RF447B	2	B		4.0	GA	EL	C	Q			CN-1599.21.	G04		T	PRF	
2RF447B	2	B		4.0	GA	EL	C	MT			CN-1599.21.	G04	5	T	PRF	
2RF447B	2	B		4.0	GA	EL	C	RP			CN-1599.21.	G04		T	PRF	
2RF448	2	AC		6.0	CK	SA	-	CV	L01	RF	CN-1599.21.	G06			PRF	
2RF448	2	AC		6.0	CK	SA	-	LT			CN-1599.21.	G06			PRF	

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2RF457B	-	B		6.0	GA	EL	C	Q			CN-1599.21.	F03		T	PRF	
2RF457B	-	B		6.0	GA	EL	C	MT			CN-1599.21.	F03	10	T	PRF	
2RF457B	-	B		6.0	GA	EL	C	RP			CN-1599.21.	F03		T	PRF	
1RN 01A	3	B		48.	BF	EL	O	Q			CN-1574.10.	J08		P	PRF	
1RN 01A	3	B		48.	BF	EL	O	MT			CN-1574.10.	J08	60	P	PRF	
1RN 01A	3	B		48.	BF	EL	O	RP			CN-1574.10.	J08		P	PRF	
1RN 02B	3	B		48.	BF	EL	O	Q			CN-1574.10.	J08		P	PRF	
1RN 02B	3	B		48.	BF	EL	O	MT			CN-1574.10.	J08	60	P	PRF	
1RN 02B	3	B		48.	BF	EL	O	RP			CN-1574.10.	J08		P	PRF	
1RN 03A	3	B		48.	BF	EL	C	Q			CN-1574.12.	K11		P	PRF	
1RN 03A	3	B		48.	BF	EL	C	MT			CN-1574.12.	K11	70	P	PRF	
1RN 03A	3	B		48.	BF	EL	C	RP			CN-1574.12.	K11		P	PRF	
1RN 04B	3	B		48.	BF	EL	C	Q			CN-1574.12.	K04		P	PRF	
1RN 04B	3	B		48.	BF	EL	C	MT			CN-1574.12.	K04	70	P	PRF	
1RN 04B	3	B		48.	BF	EL	C	RP			CN-1574.12.	K04		P	PRF	
1RN 05A	3	B		48.	BF	EL	O	Q			CN-1574.10.	K05		P	PRF	
1RN 05A	3	B		48.	BF	EL	O	MT			CN-1574.10.	K05	60	P	PRF	
1RN 05A	3	B		48.	BF	EL	O	RP			CN-1574.10.	K05		P	PRF	
1RN 06B	3	B		48.	BF	EL	O	Q			CN-1574.10.	K05		P	PRF	
1RN 06B	3	B		48.	BF	EL	O	MT			CN-1574.10.	K05	60	P	PRF	
1RN 06B	3	B		48.	BF	EL	O	RP			CN-1574.10.	K05		P	PRF	
2RN 09	3	C		30.	CK	SA	-	CV			CN-1574.10.	E11			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IV2	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2RN 11A	3	B		2.0	GL	EL	0	Q			CN-1574.10.	E09		S	PRF	
2RN 11A	3	B		2.0	GL	EL	0	MT			CN-1574.10.	E09	30	S	PRF	
2RN 11A	3	B		2.0	GL	EL	0	RP			CN-1574.10.	E09		S	PRF	
2RN 16	3	C		30.	CK	SA	-	CV			CN-1574.12.	F13			PRF	
2RN 20B	3	B		2.0	GL	EL	C	Q			CN-1574.12.	E10		S	PRF	
2RN 20B	3	B		2.0	GL	EL	C	MT			CN-1574.12.	E10	30	S	PRF	
2RN 20B	3	B		2.0	GL	EL	C	RP			CN-1574.12.	E10		S	PRF	
2RN 28A	3	B		30.	BF	EL	0	Q			CN-1574.10.	E11		S	PRF	
2RN 28A	3	B		30.	BF	EL	0	MT			CN-1574.10.	E11	60		PRF	
2RN 28A	3	B		30.	BF	EL	0	RP			CN-1574.10.	E11			PRF	
1RN 36A	3	B		4.0	GA	EL	0	Q			CN-1574.10.	C09		S	PRF	
1RN 36A	3	B		4.0	GA	EL	0	MT			CN-1574.10.	C09	30	S	PRF	
1RN 36A	3	B		4.0	GA	EL	0	RP			CN-1574.10.	C09		S	PRF	
1RN 37B	3	B		4.0	GA	EL	0	Q			CN-1574.10.	C10		S	PRF	
1RN 37B	3	B		4.0	GA	EL	0	MT			CN-1574.10.	C10	30	S	PRF	
1RN 37B	3	B		4.0	GA	EL	0	RP			CN-1574.10.	C10		S	PRF	
2RN 38B	3	B		30.	BF	EL	0	Q			CN-1574.12.	F13		S	PRF	
2RN 38B	3	B		30.	BF	EL	0	MT			CN-1574.12.	F13	60	S	PRF	
2RN 38B	3	B		30.	BF	EL	0	RP			CN-1574.12.	F13		S	PRF	
2RN 47A	3	B		20.	BF	EL	0	Q			CN-1574.11.	H09		P	PRF	
2RN 47A	3	B		20.	BF	EL	0	MT			CN-1574.11.	H09	60	P	PRF	
2RN 47A	3	B		20.	BF	EL	0	RP			CN-1574.11.	H09		P	PRF	
2RN 48B	3	B		20.	BF	EL	0	Q			CN-1574.11.	H12		P	PRF	
2RN 48B	3	B		20.	BF	EL	0	MT			CN-1574.11.	H12	60	P	PRF	
2RN 48B	3	B		20.	BF	EL	0	RP			CN-1574.11.	H12		P	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2RN 49A	3	B		20.	BF	EL	0	Q	M01	CS	CN-1574.11.	G11		P	PRF	
2RN 49A	3	B		20.	BF	EL	0	MT	M01	CS	CN-1574.11.	G11	60	P	PRF	
2RN 49A	3	B		20.	BF	EL	0	RP			CN-1574.11.	G11		P	PRF	
2RN 50B	3	B		20.	BF	EL	0	Q	M01	CS	CN-1574.11.	G11		P	PRF	
2RN 50B	3	B		20.	BF	EL	0	MT	M01	CS	CN-1574.11.	G11	60	P	PRF	
2RN 50B	3	B		20.	BF	EL	0	RP			CN-1574.11.	G11		P	PRF	
2RN 51A	3	B		20.	BF	EL	0	Q	M01	CS	CN-1574.11.	C08		P	PRF	
2RN 51A	3	B		20.	BF	EL	0	MT	M01	CS	CN-1574.11.	C08	60	P	PRF	
2RN 51A	3	B		20.	BF	EL	0	RP			CN-1574.11.	C08		P	PRF	
2RN 52B	3	B		20.	BF	EL	0	Q	M01	CS	CN-1574.11.	C08		P	PRF	
2RN 52B	3	B		20.	BF	EL	0	MT	M01	CS	CN-1574.11.	C08	60	P	PRF	
2RN 52B	3	B		20.	BF	EL	0	RP			CN-1574.11.	C08		P	PRF	
1RN 53B	3	B		42.	BF	EL	0	Q			CN-1574.11.	D09		P	PRF	
1RN 53B	3	B		42.	BF	EL	0	MT			CN-1574.11.	D09	60	P	PRF	
1RN 53B	3	B		42.	BF	EL	0	RP			CN-1574.11.	D09		P	PRF	
1RN 54A	3	B		42.	BF	EL	0	Q			CN-1574.11.	D09		P	PRF	
1RN 54A	3	B		42.	BF	EL	0	MT			CN-1574.11.	D09	60	P	PRF	
1RN 54A	3	B		42.	BF	EL	0	RP			CN-1574.11.	D09		P	PRF	
1RN 57A	3	B		42.	BF	EL	0	Q			CN-1574.11.	D05		P	PRF	
1RN 57A	3	B		42.	BF	EL	0	MT			CN-1574.11.	D05	60	P	PRF	
1RN 57A	3	B		42.	BF	EL	0	RP			CN-1574.11.	D05		P	PRF	
1RN 58B	3	B		42.	BF	EL	C	Q			CN-1574.11.	D11		P	PRF	
1RN 58B	3	B		42.	BF	EL	C	MT			CN-1574.11.	D11	60	P	PRF	
1RN 58B	3	B		42.	BF	EL	C	RP			CN-1574.11.	D11		P	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	SELF RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
1RN 63A	3	B		42.	BF	EL	O	Q			CN-1574.11.	E07		P	PRF	
1RN 63A	3	B		42.	BF	EL	O	MT			CN-1574.11.	E07	60	P	PRF	
1RN 63A	3	B		42.	BF	EL	O	RP			CN-1574.11.	E07		P	PRF	
2RN 67A	3	B		30.	BF	EL	O	Q			CN-1574.11.	I12		S	PRF	
2RN 67A	3	B		30.	BF	EL	O	MT			CN-1574.11.	I12	60	S	PRF	
2RN 67A	3	B		30.	BF	EL	O	RP			CN-1574.11.	I12		S	PRF	
2RN 69B	3	B		30.	BF	EL	O	Q			CN-1574.11.	I06		S	PRF	
2RN 69B	3	B		30.	BF	EL	O	MT			CN-1574.11.	I06	60	S	PRF	
2RN 69B	3	B		30.	BF	EL	O	RP			CN-1574.11.	I06		S	PRF	
2RN144A	3	B		18.	BF	EL	C	Q			CN-2574.20.	B08			PRF	
2RN144A	3	B		18.	BF	EL	C	MT			CN-2574.20.	B08	60		PRF	
2RN144A	3	B		18.	BF	EL	C	RP			CN-2574.20.	B08			PRF	
2RN148A	3	B		18.	BF	EL	C	Q			CN-2574.20.	L01			PRF	
2RN148A	3	B		18.	BF	EL	C	MT			CN-2574.20.	L01	60		PRF	
2RN148A	3	B		18.	BF	EL	C	RP			CN-2574.20.	L01			PRF	
2RN225B	3	B		18.	BF	EL	C	Q			CN-2574.24.	C08			PRF	
2RN225B	3	B		18.	BF	EL	C	MT			CN-2574.24.	C08	60		PRF	
2RN225B	3	B		18.	BF	EL	C	RP			CN-2574.24.	C08			PRF	
2RN229A	3	B		18.	BF	EL	C	Q			CN-2574.24.	L11			PRF	
2RN229A	3	B		18.	BF	EL	C	MT			CN-2574.24.	L11	60		PRF	
2RN229A	3	B		18.	BF	EL	C	RP			CN-2574.24.	L11			PRF	
2RN232A	3	B		10.	BF	EL	C	Q			CN-2574.21.	D02		S	PRF	
2RN232A	3	B		10.	BF	EL	C	MT			CN-2574.21.	D02	70	S	PRF	
2RN232A	3	B		10.	BF	EL	C	RP			CN-2574.21.	D02		S	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2RN250A	3	B		6.0	GL	EL	C	Q			CN-2574.21.	C07			PRF	
2RN250A	3	B		6.0	GL	EL	C	MT			CN-2574.21.	C07	10		PRF	
2RN250A	3	B		6.0	GL	EL	C	RP			CN-2574.21.	C07			PRF	
2RN287A	3	B		24.	BF	EL	O	Q			CN-2574.21.	D13		S	PRF	
2RN287A	3	B		24.	BF	EL	O	MT			CN-2574.21.	D13	60	S	PRF	
2RN287A	3	B		24.	BF	EL	O	RP			CN-2574.21.	D13		S	PRF	
2RN291	3	B		20.	BL	AD	O	Q			CN-2574.21.	K13		S	PRF	
2RN291	3	B		20.	BL	AD	O	FS			CN-2574.21.	K13		S	PRF	
2RN291	3	B		20.	BL	AD	O	MT			CN-2574.21.	K13	60	S	PRF	
2RN291	3	B		20.	BL	AD	O	RP			CN-2574.21.	K13		S	PRF	
2RN292B	3	B		10.	BF	EL	C	Q			CN-2574.25.	E02		S	PRF	
2RN292B	3	B		10.	BF	EL	C	MT			CN-2574.25.	E02	70	S	PRF	
2RN292B	3	B		10.	BF	EL	C	RP			CN-2574.25.	E02		S	PRF	
2RN310B	3	B		6.0	GA	EL	C	Q			CN-2574.25.	E06			PRF	
2RN310B	3	B		6.0	GA	EL	C	MT			CN-2574.25.	E06	10		PRF	
2RN310B	3	B		6.0	GA	EL	C	RP			CN-2574.25.	E06			PRF	
2RN347B	3	B		20.	BF	EL	O	Q			CN-2574.25.	E13		S	PRF	
2RN347B	3	B		20.	BF	EL	O	MT			CN-2574.25.	E13	60	S	PRF	
2RN347B	3	B		20.	BF	EL	O	RP			CN-2574.25.	E13		S	PRF	
2RN351	3	B		20.	BL	AD	O	Q			CN-2574.25.	I13		S	PRF	
2RN351	3	B		20.	BL	AD	O	FS			CN-2574.25.	I13		S	PRF	
2RN351	3	B		20.	BL	AD	O	MT			CN-2574.25.	I13	60	S	PRF	
2RN351	3	B		20.	BL	AD	O	RP			CN-2574.25.	I13		S	PRF	
2RN404B	2	B		6.0	GL	EL	O	Q			CN-2574.27.	D04		P	PRF	
2RN404B	2	B		6.0	GL	EL	O	MT			CN-2574.27.	D04	10	P	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2RN404B	2	B		6.0	GL	EL	0	RP			CN-2574.27.	D04		P	PRF	
2RN405	2	AC		6.0	CK	SA	-	CV	M02	RF	CN-2574.27.	E03			PRF	
2RN405	2	AC		6.0	CK	SA	-	LT			CN-2574.27.	E03			PRF	
2RN429A	2	B		6.0	GA	EL	0	Q			CN-2574.22.	C03		P	PRF	
2RN429A	2	B		6.0	GA	EL	0	MT			CN-2574.22.	C03	10	P	PRF	
2RN429A	2	B		6.0	GA	EL	0	RP			CN-2574.22.	C03		P	PRF	
2RN430	2	AC	X	.75	RL/CK	SA	-	LT			CN-2574.22.	B03			PRF	
2RN432B	2	B		6.0	GA	EL	0	Q			CN-2574.22.	C04		P	PRF	
2RN432B	2	B		6.0	GA	EL	0	MT			CN-2574.22.	C04	10	P	PRF	
2RN432B	2	B		6.0	GA	EL	0	RP			CN-2574.22.	C04		P	PRF	
2RN437B	2	B		12.	BF	EL	0	Q	M03	CS	CN-2574.22.	L06		P	PRF	
2RN437B	2	B		12.	BF	EL	0	MT	M03	CS	CN-2574.22.	L06	60	P	PRF	
2RN437B	2	B		12.	BF	EL	0	RP			CN-2574.22.	L06		P	PRF	
2RN438	2	AC		12.	CK	SA	-	CV	M02	RF	CN-2574.22.	L08			PRF	
2RN438	2	AC		12.	CK	SA	-	LT			CN-2574.22.	L08			PRF	
2RN484A	2	B		12.	GA	EL	0	Q	M04	CS	CN-2574.22.	C08		P	PRF	
2RN484A	2	B		12.	GA	EL	0	MT	M04	CS	CN-2574.22.	C08	60	P	PRF	
2RN484A	2	B		12.	GA	EL	0	RP			CN-2574.22.	C08		P	PRF	
2RN485	2	AC	X	.75	RL/CK	SA	-	LT			CN-2574.22.	B08			PRF	
2RN487B	2	B		6.0	GL	EL	0	Q	M04	CS	CN-2574.22.	C07		P	PRF	
2RN487B	2	B		6.0	GL	EL	0	MT	M04	CS	CN-2574.22.	C07	60	P	PRF	
2RN487B	2	B		6.0	GL	EL	0	RP			CN-2574.22.	C07		P	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	REL RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
1RN843B	3	B		42.	BF	EL	O	Q			CN-1574.11.	D05		P	PRF	
1RN843B	3	B		42.	BF	EL	O	MT			CN-1574.11.	D05	60	P	PRF	
1RN843B	3	B		42.	BF	EL	O	RP			CN-1574.11.	D05		P	PRF	
2RN846A	3	B		10.	BF	EL	C	Q			CN-2574.21.	J02		P	PRF	
2RN846A	3	B		10.	BF	EL	C	MT			CN-2574.21.	J02	60	P	PRF	
2RN846A	3	B		10.	BF	EL	C	RP			CN-2574.21.	J02		P	PRF	
2RN847A	3	B		10.	BF	EL	O	Q			CN-2574.21.	J01		P	PRF	
2RN847A	3	B		10.	BF	EL	O	MT			CN-2574.21.	J01	60	P	PRF	
2RN847A	3	B		10.	BF	EL	O	RP			CN-2574.21.	J01		P	PRF	
2RN848B	3	B		10.	BF	EL	C	Q			CN-2574.25.	J02		P	PRF	
2RN848B	3	B		10.	BF	EL	C	MT			CN-2574.25.	J02	60	P	PRF	
2RN848B	3	B		10.	BF	EL	C	RP			CN-2574.25.	J02		P	PRF	
2RN849B	3	B		10.	BF	EL	O	Q			CN-2574.25.	J01		P	PRF	
2RN849B	3	B		10.	BF	EL	O	MT			CN-2574.25.	J01	60	P	PRF	
2RN849B	3	B		10.	BF	EL	O	RP			CN-2574.25.	J01		P	PRF	
2SA 02	2	B		4.0	GA	P	C	Q			CN-2593.11.	G04			PRF	
2SA 02	2	B		4.0	GA	P	C	FS			CN-2593.11.	G04			PRF	
2SA 02	2	B		4.0	GA	P	C	MT			CN-2593.11.	G04	15		PRF	
2SA 02	2	B		4.0	GA	P	C	RP			CN-2593.11.	G04			PRF	
2SA 03	2	C		6.0	CK	SA	-	CV	BB1	RR	CN-2593.11.	H05			P/M	
2SA 05	2	B		4.0	GA	P	C	Q			CN-2593.11.	H04			PRF	
2SA 05	2	B		4.0	GA	P	C	FS			CN-2593.11.	H04			PRF	
2SA 05	2	B		4.0	GA	P	C	MT			CN-2593.11.	H04	15		PRF	
2SA 05	2	B		4.0	GA	P	C	RP			CN-2593.11.	H04			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM PCSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2SA 06	2	C		6.0	CK	SA	-	CV	BB1	RR	CN-2593.11.	H05			P/M	
2SM 01	2	B		34.	GL	P	0	Q	N01	Z	CN-2593.10.	K13		P	PRF	
2SM 01	2	B		34.	GL	P	0	FS	N01	Z	CN-2593.10.	K13		P	PRF	
2SM 01	2	B		34.	GL	P	0	MT	N01	Z	CN-2593.10.	K13	5	P	PRF	
2SM 01	2	B		34.	GL	P	0	RP			CN-2593.10.	K13		P	PRF	
2SM 03	2	B		34.	GL	P	0	Q	N01	Z	CN-2593.10.	H13		P	PRF	
2SM 03	2	B		34.	GL	P	0	FS	N01	Z	CN-2593.10.	H13		P	PRF	
2SM 03	2	B		34.	GL	P	0	MT	N01	Z	CN-2593.10.	H13	5	P	PRF	
2SM 03	2	B		34.	GL	P	0	RP			CN-2593.10.	H13		P	PRF	
2SM 05	2	B		34.	GL	P	0	Q	N01	Z	CN-2593.10.	F13		P	PRF	
2SM 05	2	B		34.	GL	P	0	FS	N01	Z	CN-2593.10.	F13		P	PRF	
2SM 05	2	B		34.	GL	P	0	MT	N01	Z	CN-2593.10.	F13	5	P	PRF	
2SM 05	2	B		34.	GL	P	0	RP			CN-2593.10.	F13		P	PRF	
2SM 07	2	B		34.	GL	P	0	Q	N01	Z	CN-2593.10.	C13		P	PRF	
2SM 07	2	B		34.	GL	P	0	FS	N01	Z	CN-2593.10.	C13		P	PRF	
2SM 07	2	B		34.	GL	P	0	MT	N01	Z	CN-2593.10.	C13	5	P	PRF	
2SM 07	2	B		34.	GL	P	0	RP			CN-2593.10.	C13		P	PRF	
2SM 09	2	B		3.0	GA	AD	C	Q			CN-2593.10.	J13		P	PRF	
2SM 09	2	B		3.0	GA	AD	C	FS			CN-2593.10.	J13		P	PRF	
2SM 09	2	B		3.0	GA	AD	C	MT			CN-2593.10.	J13	5	P	PRF	
2SM 09	2	B		3.0	GA	AD	C	RP			CN-2593.10.	J13		P	PRF	
2SM 10	2	B		3.0	GA	AD	C	Q			CN-2593.10.	G13		P	PRF	
2SM 10	2	B		3.0	GA	AD	C	FS			CN-2593.10.	G13		P	PRF	
2SM 10	2	B		3.0	GA	AD	C	MT			CN-2593.10.	G13	5	P	PRF	
2SM 10	2	B		3.0	GA	AD	C	RP			CN-2593.10.	G13		P	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2SM 11	2	B		3.0	GA	AD	C	Q			ICN-2593.10.	E13		P	PRF	
2SM 11	2	B		3.0	GA	AD	C	FS			ICN-2593.10.	E13		P	PRF	
2SM 11	2	B		3.0	GA	AD	C	MT			ICN-2593.10.	E13	5	P	PRF	
2SM 11	2	B		3.0	GA	AD	C	RP			ICN-2593.10.	E13		P	PRF	
2SM 12	2	B		3.0	GA	AD	C	Q			ICN-2593.10.	B13		P	PRF	
2SM 12	2	B		3.0	GA	AD	C	FS			ICN-2593.10.	B13		P	PRF	
2SM 12	2	B		3.0	GA	AD	C	MT			ICN-2593.10.	B13	5	P	PRF	
2SM 12	2	B		3.0	GA	AD	C	RP			ICN-2593.10.	B13		P	PRF	
2SV 01	2	B		6.0	GA	P	C	Q			ICN-2593.10.	K12		P	PRF	
2SV 01	2	B		6.0	GA	P	C	FS			ICN-2593.10.	K12		P	PRF	
2SV 01	2	B		6.0	GA	P	C	MT			ICN-2593.10.	K12	5	P	PRF	
2SV 01	2	B		6.0	GA	P	C	RP			ICN-2593.10.	K12		P	PRF	
2SV 02	2	C		6.0	RL	SA	-	SRV			ICN-2593.10.	K04			MNT	
2SV 03	2	C		6.0	RL	SA	-	SRV			ICN-2593.10.	K05			MNT	
2SV 04	2	C		6.0	RL	SA	-	SRV			ICN-2593.10.	K07			MNT	
2SV 05	2	C		6.0	RL	SA	-	SRV			ICN-2593.10.	K08			MNT	
2SV 06	2	C		6.0	RL	SA	-	SRV			ICN-2593.10.	K10			MNT	
2SV 07	2	B		6.0	GA	P	C	Q			ICN-2593.10.	I12		P	PRF	
2SV 07	2	B		6.0	GA	P	C	FS			ICN-2593.10.	I12		P	PRF	
2SV 07	2	B		6.0	GA	P	C	MT			ICN-2593.10.	I12	5	P	PRF	
2SV 07	2	B		6.0	GA	P	C	RP			ICN-2593.10.	I12		P	PRF	
2SV 08	2	C		6.0	RL	SA	-	SRV			ICN-2593.10.	I04			MNT	

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2SV 09	2	C		6.0	GA	AD	-	SRV			1CN-2593.10.	I05			MNT	
2SV 10	2	C		6.0	GA	AD	-	SRV			1CN-2593.10.	I07			MNT	
2SV 11	2	C		6.0	GA	AD	-	SRV			1CN-2593.10.	I08			MNT	
2SV 12	2	C		6.0	GA	AD	-	SRV			1CN-2593.10.	I10			MNT	
2SV 13	2	B		6.0	GA	AD	C	Q			1CN-2593.10.	F12		P	PRF	
2SV 13	2	B		6.0	GA	AD	C	FS			1CN-2593.10.	F12		P	PRF	
2SV 13	2	B		6.0	GA	AD	C	MT			1CN-2593.10.	F12	5	P	PRF	
2SV 13	2	B		6.0	GA	AD	C	RP			1CN-2593.10.	F12		P	PRF	
2SV 14	2	C		6.0	RL	SA	-	SRV			1CN-2593.10.	F04			MNT	
2SV 15	2	C		6.0	RL	SA	-	SRV			1CN-2593.10.	F05			MNT	
2SV 16	2	C		6.0	RL	SA	-	SRV			1CN-2593.10.	F07			MNT	
2SV 17	2	C		6.0	RL	SA	-	SRV			1CN-2593.10.	F08			MNT	
2SV 18	2	C		6.0	RL	SA	-	SRV			1CN-2593.10.	F10			MNT	
2SV 19	2	B		6.0	GA	AD	C	Q			1CN-2593.10.	D11		P	PRF	
2SV 19	2	B		6.0	GA	AD	C	FS			1CN-2593.10.	D11		P	PRF	
2SV 19	2	B		6.0	GA	AD	C	MT			1CN-2593.10.	D11		P	PRF	

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2SV 19	2	B		6.0	GA	AD	C	RP			1CN-2593.10.	D11		P	PRF	
2SV 20	2	C		6.0	RL	SA	-	SRV			1CN-2593.10.	C04			MNT	
2SV 21	2	C		6.0	RL	SA	-	SRV			1CN-2593.10.	C05			MNT	
2SV 22	2	C		6.0	RL	SA	-	SRV			1CN-2593.10.	C07			MNT	
2SV 23	2	C		6.0	RL	SA	-	SRV			1CN-2593.10.	C08			MNT	
2SV 24	2	C		6.0	RL	SA	-	SRV			1CN-2593.10.	C10			MNT	
2VB 83B	2	A		2.0	GA	EL	0	Q			1CN-2605.32.	I07		T	PRF	
2VB 83B	2	A		2.0	GA	EL	0	LT			1CN-2605.32.	I07		T	PRF	
2VB 83B	2	A		2.0	GA	EL	0	MT			1CN-2605.32.	I07	10	T	PRF	
2VB 83B	2	A		2.0	GA	EL	0	RP			1CN-2605.32.	I07		T	PRF	
2VB 65	2	AC		2.0	CK	SA	-	CV	001	RF	1CN-2605.32.	H07			PRF	
2VB 85	2	AC		2.0	CK	SA	-	LT			1CN-2605.32.	H07			PRF	
2VG 5	3	C		1.0	CK	SA	-	CV			1CN-2609.40.	J02			OPS	
2VG 6	3	C		1.0	CK	SA	-	CV			1CN-2609.40.	J13			OPS	
2VG 7	3	C		1.0	CK	SA	-	CV			1CN-2609.40.	I02			OPS	
2VG 8	3	C		1.0	CK	SA	-	CV			1CN-2609.40.	I13			OPS	

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2VG 15	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.40.	F02			O/P	
2VG 16	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.40.	F13			O/P	
2VG 25	3	B		3.0	GA	S	C	Q	W02	RR	CN-2609.40.	D05			O/P	
2VG 25	3	B		3.0	GA	S	C	MT	W02	RR	CN-2609.40.	D05	2		O/P	
2VG 25	3	B		3.0	GA	S	C	RP	W02	RR	CN-2609.40.	D05			O/P	
2VG 26	3	B		3.0	GA	S	C	Q	W02	RR	CN-2609.40.	D10			O/P	
2VG 26	3	B		3.0	GA	S	C	MT	W02	RR	CN-2609.40.	D10	2		O/P	
2VG 26	3	B		3.0	GA	S	C	RP	W02	RR	CN-2609.40.	D10			O/P	
2VG 27	3	B		3.0	GA	S	C	Q	W02	RR	CN-2609.40.	C05			O/P	
2VG 27	3	B		3.0	GA	S	C	MT	W02	RR	CN-2609.40.	C05	2		O/P	
2VG 27	3	B		3.0	GA	S	C	RP	W02	RR	CN-2609.40.	C05			O/P	
2VG 28	3	B		3.0	GA	S	C	Q	W02	RR	CN-2609.40.	C10			O/P	
2VG 28	3	B		3.0	GA	S	C	MT	W02	RR	CN-2609.40.	C10	2		O/P	
2VG 28	3	B		3.0	RP	S	C	RP	W02	RR	CN-2609.40.	C10			O/P	
2VG 29	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.40.	D06			O/P	
2VG 30	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.40.	D10			O/P	
2VG 31	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.40.	C05			O/P	
2VG 32	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.40.	C10			O/P	

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2VG 49	3	C		1.0	CK	SA	-	CV			CN-2609.41.	J02			OPS	
2VG 50	3	C		1.0	CK	SA	-	CV			CN-2609.41.	J13			OPS	
2VG 51	3	C		1.0	CK	SA	-	CV			CN-2609.41.	I02			OPS	
2VG 52	3	C		1.0	CK	SA	-	CV			CN-2609.41.	I13			OPS	
2VG 59	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.41.	F02			O/P	
2VG 60	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.41.	F13			O/P	
2VG 69	3	B		3.0	GA	S	C	Q	W02	RR	CN-2609.41.	D05			O/P	
2VG 69	3	B		3.0	GA	S	C	MT	W02	RR	CN-2609.41.	D05	2		O/P	
2VG 69	3	B		3.0	GA	S	C	RP	W02	RR	CN-2609.41.	D05			O/P	
2VG 70	3	B		3.0	GA	S	C	Q	W02	RR	CN-2609.41.	D10			O/P	
2VG 70	3	B		3.0	GA	S	C	MT	W02	RR	CN-2609.41.	D10	2		O/P	
2VG 70	3	B		3.0	GA	S	C	RP	W02	RR	CN-2609.41.	D10			O/P	
2VG 71	3	B		3.0	GA	S	C	Q	W02	RR	CN-2609.41.	C05			O/P	
2VG 71	3	B		3.0	GA	S	C	MT	W02	RR	CN-2609.41.	C05	2		O/P	
2VG 71	3	B		3.0	GA	S	C	RP	W02	RR	CN-2609.41.	C05			O/P	
2VG 72	3	B		3.0	GA	S	C	Q	W02	RR	CN-2609.41.	C10			O/P	
2VG 72	3	B		3.0	GA	S	C	MT	W02	RR	CN-2609.41.	C10	2		O/P	
2VG 72	3	B		3.0	GA	S	C	RP	W02	RR	CN-2609.41.	C10			O/P	

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2VG 73	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.41.	D05				O/P
2VG 74	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.41.	D10				O/P
2VG 75	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.41.	C05				O/P
2VG 76	3	C		3.0	CK	SA	-	CV	W01	RR	CN-2609.41.	C10				O/P
2VI 77B	2	A		2.0	GL	EL	0	Q	R02	CS	CN-2605.11.	I05			P	PRF
2VI 77B	2	A		2.0	GL	EL	0	LT			CN-2605.11.	I05			P	PRF
2VI 77B	2	A		2.0	GL	EL	0	MT	R02	CS	CN-2605.11.	I05	10		P	PRF
2VI 77B	2	A		2.0	GL	EL	0	RP			CN-2605.11.	I05			P	PRF
2VI 79	2	AC		2.0	CK	SA	-	CV	R01	RF	CN-2605.11.	I07				PRF
2VI 79	2	AC		2.0	CK	SA	-	LT			CN-2605.11.	I07				PRF
2VI312A	2	A		2.0	GL	EL	0	Q			CN-2605.11.	I06			T	PRF
2VI312A	2	A		2.0	GL	EL	0	LT			CN-2605.11.	I06			T	PRF
2VI312A	2	A		2.0	GL	EL	0	MT			CN-2605.11.	I06	10		T	PRF
2VI312A	2	A		2.0	GL	EL	0	RP			CN-2605.11.	I06			T	PRF
2VI367	-	C		2.0	CK	SA	-	CV	R03	RR	CN-2605.11.	J12				OPS
2VI368	-	C		2.0	CK	SA	-	CV	R03	RR	CN-2605.11.	J13				OPS
2VI369	-	C		2.0	CK	SA	-	CV	R04	RR	CN-2605.11.	K11				OPS

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2VI370	-	C		2.0	CK	SA	-	CV	IR04	RR	CN-2605.11.	K13			OPS	
2VP 01B	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	I05		T	PRF	
2VP 01B	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	I05		T	PRF	
2VP 01B	2	A		24.	BF	AD	C	LT			CN-2576.10.	I05		T	PRF	
2VP 01B	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	I05	5	T	PRF	
2VP 01B	2	A		24.	BF	AD	C	RP			CN-2576.10.	I05		T	PRF	
2VP 02A	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	I06		T	PRF	
2VP 02A	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	I06		T	PRF	
2VP 02A	2	A		24.	BF	AD	C	LT			CN-2576.10.	I06		T	PRF	
2VP 02A	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	I06	5	T	PRF	
2VP 02A	2	A		24.	BF	AD	C	RP			CN-2576.10.	I06		T	PRF	
2VP 03B	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	H05		T	PRF	
2VP 03B	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	H05		T	PRF	
2VP 03B	2	A		24.	BF	AD	C	LT			CN-2576.10.	H05		T	PRF	
2VP 03B	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	H05	5	T	PRF	
2VP 03B	2	A		24.	BF	AD	C	RP			CN-2576.10.	H05		T	PRF	
2VP 04A	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	H06		T	PRF	
2VP 04A	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	H06		T	PRF	
2VP 04A	2	A		24.	BF	AD	C	LT			CN-2576.10.	H06		T	PRF	
2VP 04A	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	H06	5	T	PRF	
2VP 04A	2	A		24.	BF	AD	C	RP			CN-2576.10.	H06		T	PRF	
2VP 06B	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	G05		T	PRF	
2VP 06B	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	G05		T	PRF	
2VP 06B	2	A		24.	BF	AD	C	LT			CN-2576.10.	G05		T	PRF	
2VP 06B	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	G05	5	T	PRF	
2VP 06B	2	A		24.	BF	AD	C	RP			CN-2576.10.	G05		T	PRF	
2VP 07A	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	G06		T	PRF	
2VP 07A	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	G06		T	PRF	

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2VP 07A	2	A		24.	BF	AD	C	LT			CN-2576.10.	G06		T	PRF	
2VP 07A	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	G06	5	T	PRF	
2VP 07A	2	A		24.	BF	AD	C	RP			CN-2576.10.	G06		T	PRF	
2VP 08B	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	F05		T	PRF	
2VP 08B	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	F05		T	PRF	
2VP 08B	2	A		24.	BF	AD	C	LT			CN-2576.10.	F05		T	PRF	
2VP 08B	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	F05	5	T	PRF	
2VP 08B	2	A		24.	BF	AD	C	RP			CN-2576.10.	F05		T	PRF	
2VP 09A	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	F06		T	PRF	
2VP 09A	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	F06		T	PRF	
2VP 09A	2	A		24.	BF	AD	C	LT			CN-2576.10.	F06		T	PRF	
2VP 09A	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	F06	5	T	PRF	
2VP 09A	2	A		24.	BF	AD	C	RP			CN-2576.10.	F06		T	PRF	
2VP 10A	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	I09		T	PRF	
2VP 10A	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	I09		T	PRF	
2VP 10A	2	A		24.	BF	AD	C	LT			CN-2576.10.	I09		T	PRF	
2VP 10A	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	I09	5	T	PRF	
2VP 10A	2	A		24.	BF	AD	C	RP			CN-2576.10.	I09		T	PRF	
2VP 11B	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	I10		T	PRF	
2VP 11B	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	I10		T	PRF	
2VP 11B	2	A		24.	BF	AD	C	LT			CN-2576.10.	I10		T	PRF	
2VP 11B	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	I10	5	T	PRF	
2VP 11B	2	A		24.	BF	AD	C	PP			CN-2576.10.	I10		T	PRF	
2VP 12A	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	H09		T	PRF	
2VP 12A	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	H09		T	PRF	
2VP 12A	2	A		24.	BF	AD	C	LT			CN-2576.10.	H09		T	PRF	
2VP 12A	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	H09	5	T	PRF	
2VP 12A	2	A		24.	BF	AD	C	RP			CN-2576.10.	H09		T	PRF	
2VP 13B	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	H10		T	PRF	
2VP 13B	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	H10		T	PRF	
2VP 13B	2	A		24.	BF	AD	C	LT			CN-2576.10.	H10		T	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2VP 13B	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	H10	5	T	PRF	
2VP 13B	2	A		24.	BF	AD	C	RP			CN-2576.10.	H10		T	PRF	
2VP 15A	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	F09		T	PRF	
2VP 15A	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	F09		T	PRF	
2VP 15A	2	A		24.	BF	AD	C	LT			CN-2576.10.	F09		T	PRF	
2VP 15A	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	F09	5	T	PRF	
2VP 15A	2	A		24.	BF	AD	C	RP			CN-2576.10.	F09		T	PRF	
2VP 16B	2	A		24.	BF	AD	C	Q	S01	RR	CN-2576.10.	F10		T	PRF	
2VP 16B	2	A		24.	BF	AD	C	FS	S01	RR	CN-2576.10.	F10		T	PRF	
2VP 16B	2	A		24.	BF	AD	C	LT			CN-2576.10.	F10		T	PRF	
2VP 16B	2	A		24.	BF	AD	C	MT	S01	RR	CN-2576.10.	F10	5	T	PRF	
2VP 16B	2	A		24.	BF	AD	C	RP			CN-2576.10.	F10		T	PRF	
2VP 17A	2	A		12.	BF	AD	C	Q	S01	RR	CN-2576.10.	E09		T	PRF	
2VP 17A	2	A		12.	BF	AD	C	FS	S01	RR	CN-2576.10.	E09		T	PRF	
2VP 17A	2	A		12.	BF	AD	C	LT			CN-2576.10.	E09		T	PRF	
2VP 17A	2	A		12.	BF	AD	C	MT	S01	RR	CN-2576.10.	E09	5	T	PRF	
2VP 17A	2	A		12.	BF	AD	C	RP			CN-2576.10.	E09		T	PRF	
2VP 18B	2	A		12.	BF	AD	C	Q	S01	RR	CN-2576.10.	E10		T	PRF	
2VP 18B	2	A		12.	BF	AD	C	FS	S01	RR	CN-2576.10.	E10		T	PRF	
2VP 18B	2	A		12.	BF	AD	C	LT			CN-2576.10.	E10		T	PRF	
2VP 18B	2	A		12.	BF	AD	C	MT	S01	RR	CN-2576.10.	E10	5	T	PRF	
2VP 18B	2	A		12.	BF	AD	C	RP			CN-2576.10.	E10		T	PRF	
2VP 19A	2	A		12.	BF	AD	C	Q	S01	RR	CN-2576.10.	E06		T	PRF	
2VP 19A	2	A		12.	BF	AD	C	FS	S01	RR	CN-2576.10.	E06		T	PRF	
2VP 19A	2	A		12.	BF	AD	C	LT			CN-2576.10.	E06		T	PRF	
2VP 19A	2	A		12.	BF	AD	C	MT	S01	RR	CN-2576.10.	E06	5	T	PRF	
2VP 19A	2	A		12.	BF	AD	C	RP			CN-2576.10.	E06		T	PRF	
2VP 20B	2	A		12.	BF	AD	C	Q	S01	RR	CN-2576.10.	E05		T	PRF	
2VP 20B	2	A		12.	BF	AD	C	FS	S01	RR	CN-2576.10.	E05		T	PRF	
2VP 20B	2	A		12.	BF	AD	C	LT			CN-2576.10.	E05		T	PRF	
2VP 20B	2	A		12.	BF	AD	C	MT	S01	RR	CN-2576.10.	E05	5	T	PRF	

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2VP 20B	2	A		12.	BF	AD	C	RP			CN-2576.10.	E05		T	PRF	
2VQ 02A	2	A		4.0	GA	EL	C	Q			CN-2585.10.	I02		T	PRF	
2VQ 02A	2	A		4.0	GA	EL	C	LT			CN-2585.10.	I02		T	PRF	
2VQ 02A	2	A		4.0	GA	EL	C	MT			CN-2585.10.	I02	5	T	PRF	
2VQ 02A	2	A		4.0	GA	EL	C	RP			CN-2585.10.	I02		T	PRF	
2VQ 03B	2	A		4.0	GA	EL	C	Q			CN-2585.10.	G02		T	PRF	
2VQ 03B	2	A		4.0	GA	EL	C	LT			CN-2585.10.	G02		T	PRF	
2VQ 03B	2	A		4.0	GA	EL	C	MT			CN-2585.10.	G02	5	T	PRF	
2VQ 03B	2	A		4.0	GA	EL	C	RP			CN-2585.10.	G02		T	PRF	
2VQ 15B	2	A		4.0	GA	EL	C	Q			CN-2585.10.	I11		T	PRF	
2VQ 15B	2	A		4.0	GA	EL	C	LT			CN-2585.10.	I11		T	PRF	
2VQ 15B	2	A		4.0	GA	EL	C	MT			CN-2585.10.	I11	5	T	PRF	
2VQ 15B	2	A		4.0	GA	EL	C	RP			CN-2585.10.	I11		T	PRF	
2VQ 16A	2	A		4.0	GA	EL	C	Q			CN-2585.10.	J11		T	PRF	
2VQ 16A	2	A		4.0	GA	EL	C	LT			CN-2585.10.	J11		T	PRF	
2VQ 16A	2	A		4.0	GA	EL	C	MT			CN-2585.10.	J11	5	T	PRF	
2VQ 16A	2	A		4.0	GA	EL	C	RP			CN-2585.10.	J11		T	PRF	
2VS 54B	2	A		3.0	GA	EL	C	Q			CN-1605.21.	G05		T	PRF	
2VS 54B	2	A		3.0	GA	EL	C	LT			CN-1605.21.	G05		T	PRF	
2VS 54B	2	A		3.0	GA	EL	C	MT			CN-1605.21.	G05	15	T	PRF	
2VS 54B	2	A		3.0	GA	EL	C	RP			CN-1605.21.	G05		T	PRF	
2VS 56	2	AC		3.0	CK	SA	-	CV	T01	RF	CN-1605.21.	G03			PRF	
2VS 56	2	AC		3.0	CK	SA	-	LT			CN-1605.21.	G03			PRF	
2VX 01A	2	B		12.	BF	EL	C	Q			CN-2557.10.	G03		P	PRF	
2VX 01A	2	B		12.	BF	EL	C	MT			CN-2557.10.	G03	66	P	PRF	
2VX 01A	2	B		12.	BF	EL	C	RP			CN-2557.10.	G03		P	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2VX 02B	2	B		12.	BF	EL	C	Q			CN-2557.10.	G14		P	PRF	
2VX 02B	2	B		12.	BF	EL	C	MT			CN-2557.10.	G14	66	P	PRF	
2VX 02B	2	B		12.	BF	EL	C	RP			CN-2557.10.	G14		P	PRF	
2VY 15B	2	A		4.0	GA	EL	C	Q			CN-2559.10.	F07		T	PRF	
2VY 15B	2	A		4.0	GA	EL	C	LT			CN-2559.10.	F07		T	PRF	
2VY 15B	2	A		4.0	GA	EL	C	MT			CN-2559.10.	F07	10	T	PRF	
2VY 15B	2	A		4.0	GA	EL	C	RP			CN-2559.10.	F07		T	PRF	
2VY 16	2	AC		4.0	CK	SA	-	CV	U01	RF	CN-2559.10.	D07			PRF	
2VY 16	2	AC		4.0	CK	SA	-	LT			CN-2559.10.	D07			PRF	
2VY 17A	2	A		4.0	GA	EL	C	Q			CN-2559.10.	E04		T	PRF	
2VY 17A	2	A		4.0	GA	EL	C	LT			CN-2559.10.	E04		T	PRF	
2VY 17A	2	A		4.0	GA	EL	C	MT			CN-2559.10.	E04	10	T	PRF	
2VY 17A	2	A		4.0	GA	EL	C	RP			CN-2559.10.	E04		T	PRF	
2VY 18B	2	A		4.0	GA	EL	C	Q			CN-2559.10.	G04		T	PRF	
2VY 18B	2	A		4.0	GA	EL	C	LT			CN-2559.10.	G04		T	PRF	
2VY 18B	2	A		4.0	GA	EL	C	MT			CN-2559.10.	G04	10	T	PRF	
2VY 18B	2	A		4.0	GA	EL	C	RP			CN-2559.10.	G04		T	PRF	
2WE 20	2	A	X	1.0	GL	M	LC	LT			CN-2568.10.	J07			PRF	
2WE 22	2	A	X	1.0	GL	M	LC	LT			CN-2568.10.	H07			PRF	
2HL321	2	AC		.75	RL/CK	SA	-	LT			CN-2565.24.	H06			PRF	
2HL450A	2	A		.75	GL	EL	O	Q			CN-2565.20.	I04		T	PRF	
2HL450A	2	A		.75	GL	EL	O	LT			CN-2565.20.	I04		T	PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF ROST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2WL450A	2	A		.75	GL	EL	0	MT			CN-2565.20.	I04	10	T	PRF	
2WL450A	2	A		.75	GL	EL	0	RP			CN-2565.20.	I04		T	PRF	
2WL451B	2	A		.75	GL	EL	0	Q			CN-2565.20.	J04		T	PRF	
2WL451B	2	A		.75	GL	EL	0	LT			CN-2565.20.	J04		T	PRF	
2WL451B	2	A		.75	GL	EL	0	MT			CN-2565.20.	J04	10	T	PRF	
2WL451B	2	A		.75	GL	EL	0	RP			CN-2565.20.	J04		T	PRF	
2WL805A	2	B		3.0	GA	EL	0	Q			CN-2565.20.	I08		T	PRF	
2WL805A	2	B		3.0	GA	EL	0	MT			CN-2565.20.	I08	10	T	PRF	
2WL805A	2	B		3.0	GA	EL	0	RP			CN-2565.20.	I08		T	PRF	
2WL806	2	AC	X	.50	IRL/CK	SA	-	LT			CN-2565.20.	I08			PRF	
2WL807B	2	B		3.0	GA	EL	0	Q			CN-2565.20.	J08		T	PRF	
2WL807B	2	B		3.0	GA	EL	0	MT			CN-2565.20.	J08	10	T	PRF	
2WL807B	2	B		3.0	GA	EL	0	RP			CN-2565.20.	J08		T	PRF	
2WL825A	2	B		4.0	GA	EL	0	Q			CN-2565.24.	H07		T	PRF	
2WL825A	2	B		4.0	GA	EL	0	MT			CN-2565.24.	H07	10	T	PRF	
2WL825A	2	B		4.0	GA	EL	0	RP			CN-2565.24.	H07		T	PRF	
2WL827B	2	B		4.0	GA	EL	0	Q			CN-2565.24.	J07		T	PRF	
2WL827B	2	B		4.0	GA	EL	0	MT			CN-2565.24.	J07	10	T	PRF	
2WL827B	2	B		4.0	GA	EL	0	RP			CN-2565.24.	J07		T	PRF	
2WL867A	2	B		4.0	GA	EL	0	Q			CN-2565.21.	I07		P	PRF	
2WL867A	2	B		4.0	GA	EL	0	MT			CN-2565.21.	I07	10	P	PRF	
2WL867A	2	B		4.0	GA	EL	0	RP			CN-2565.21.	I07		P	PRF	
2WL868	2	AC	X	1.0	IRL/CK	SA	-	LT			CN-2565.21.	I06			PRF	

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
2WL869B	2	B		6.0	GA	EL	0	Q			CN-2565.21.	H07		P	PRF	
2WL869B	2	B		6.0	GA	EL	0	MT			CN-2565.21.	H07	10	P	PRF	
2WL869B	2	B		6.0	GA	EL	0	RP			CN-2565.21.	H07		P	PRF	
2WLA22	2	AC	X	.75	IRL/CK	SA	-	LT			CN-2565.26.	H10			PRF	
1YC 65	3	C		8.0	CK	SA	-	CV			CN-1578.20.	B06			PRF	
1YC 77A	3	B		2.0	GA	EL	0	Q			CN-1578.20.	D12		S	PRF	
1YC 77A	3	B		2.0	GA	EL	0	MT			CN-1578.20.	D12	11	S	PRF	
1YC 77A	3	B		2.0	GA	EL	0	RP			CN-1578.20.	D12		S	PRF	
1YC108	3	C		8.0	CK	SA	-	CV			CN-1578.22.	C08			PRF	
1YC121B	3	B		2.0	GA	EL	0	Q			CN-1578.22.	D12		S	PRF	
1YC121B	3	B		2.0	GA	EL	0	MT			CN-1578.22.	D12	11	S	PRF	
1YC121B	3	B		2.0	GA	EL	0	RP			CN-1578.22.	D12		S	PRF	
2YM119B	2	A		2.0	GA	EL	0	Q			CN-1601.31.	E09		T	PRF	
2YM119B	3	A		2.0	GA	EL	0	LT			CN-1601.31.	E09		T	PRF	
2YM119B	2	A		2.0	GA	EL	0	MT			CN-1601.31.	E09	10	T	PRF	
2YM119B	2	A		2.0	GA	EL	0	RP			CN-1601.31.	E09		T	PRF	
2YM121	2	AC		2.0	CK	SA	-	CV	V01	RF	CN-1601.31.	E10			PRF	
2YM121	2	AC		2.0	CK	SA	-	LT			CN-1601.31.	E10			PRF	

NOTES TO THE COMMITMENT LIST

Note #1: The safety function of valves 2VG5, 2VG6, 2VG7, 2VG8, 2VG49, 2VG50, 2VG51 and 2VG52 is to remain closed to prevent the Diesel Generator starting air tanks from excessively losing pressure. These valves will be verified to operate properly during the monthly Diesel Generator operability test by verifying that each starting air tank is able to maintain normal working pressure without the starting air compressors continuously running.

D. RELIEF REQUESTS

This section contains relief requests for those valves not tested according to Code Requirements. Relief Requests are identified by the reference number appearing in the 'Relf Reqs' column in Section C.

GENERAL RELIEF REQUESTS

- I. Test Requirement: Perform Trend Analysis on Category A and B valves as described in IWV-3417(a).

Basis for Relief: Fast-acting valve stroke times (those with stroke times of ≤ 2 seconds) will not be trended. Since stroke times are only measured to the nearest second (per IWV-3413(b)) it is difficult to screen out variables which can influence stroke times of ≤ 2 seconds.

Testing Alternative: Trend Analysis will not be performed on valves with stroke times of ≤ 2 seconds. Corrective maintenance will be initiated if stroke time exceeds maximum specified time.

- II. Test Requirement: Measure the full stroke time for power operated valves as specified in IWV-3413(a).

Basis for Relief: Catawba's Operator Aid Computer Response Time Testing Program measures response time between limit switch actuations, rather than from the initiation of the actuating signal. The only way to time the valve using the actuating signal as the initiating point is through the use of some manual means, such as a stop watch. More consistent and repeatable results can be obtained by timing the valve from limit switch to limit switch.

Testing Alternative: Valves will normally be timed from limit switch to limit switch. In cases where this is not practical timing will manually be done from initiation of the actuating signal.

- III. Test Requirement: Analyze leak rates and perform corrective action as detailed in IWV-3426 and IWV-3427.

Basis for Relief: During critical path testing, it may be desirable to exempt certain valves from the leakage limits established by IWV-3426 and the trending requirements of IWV-3427 provided total Tech Spec leakage rates for Type C tests are within limit.

Testing Alternative: Valves may be exempted from the requirements of IWV-3426 and IWV-3427 provided:

- 1) Valve leak rate test is a critical path item leading to return to power operation,
- 2) Total Type C leak rate is within Tech Spec Limits, and

- 3) Valve leak rate does not exceed 15D standard cubic feet/day. (30D standard cubic feet/day for check valves).

In addition, these valves will have corrective maintenance performed to reduce the leak rate during the next outage of sufficient duration.

RELIEF REQUEST #A1

VALVE: 2CA37, 2CA41, 2CA45, 2CA49, 2CA53, 2CA57, 2CA61, 2CA65
CATEGORY: C
CLASS: 2
FUNCTION: Open to pass flow from motor driven and turbine driven auxiliary feedwater pumps to steam generators.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Exercising these valves would result in feeding cold water into the steam generators. This is not desirable during power operation since flow through these valves would unnecessarily thermal shock the steam generator feedwater nozzles. Testing during cold shutdown is not desirable due to the steam generators being in wet layup conditions. Testing at a time prior to mode 2 allows normal steam generator levels to be established and the system aligned for standby readiness.

ALTERNATE TESTING: Exercise check valve (full stroke) to the position required to fulfill its function after each cold shutdown prior to entering Mode 2.

RELIEF REQUEST #A2

VALVE: 2CA171, 2CA172

CATEGORY: C

CLASS: 3

FUNCTION: Valves open to provide assured source of auxiliary feedwater from the Nuclear Service Water System.

TEST REQUIREMENT(S): Exercise Check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Full stroking these valves would result in feeding dirty water into the steam generators as the only full flowpath is to the steam generators. Valves can be partial stroked quarterly using the test line to the auxiliary feedwater pump sump.

ALTERNATE TESTING: Exercise check valve (partial stroke) to the position required to fulfill its function every 3 months. During each refueling one of the two check valves will be disassembled and the disk will be mechanically exercised. The next refueling the other valve will be disassembled, such that both valves will be tested in a two refueling time period. Should one valve fail to stroke acceptably, the other valve will also be disassembled.

RELIEF REQUEST #A03

VALVE: 2CA8, 2CA10, 2CA12

CATEGORY: C

CLASS: 3

FUNCTION: Close to prevent reverse flow to non-safety suction sources supplying the auxiliary feedwater pumps.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon reversal.

ALTERNATE TESTING: Verify valve closure during refueling by pressurizing valves and measuring leakage.

RELIEF REQUEST #B1

VALVE: 2CF33, 2CF42, 2CF51, 2CF60

CATEGORY: B

CLASS: 2

FUNCTION: Isolates main feedwater piping from steam generators upon receipt of a feedwater isolation signal.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Closure these valves during power operation is considered impractical from an operating viewpoint. Closure would isolate feedwater to the steam generator which may result in a severe transient in the steam generator, possibly causing a unit trip.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #C1

VALVE: 2KC320A, 2KC332B, 2KC333A

CATEGORY: B

CLASS: 2

FUNCTION: Isolates flow to the reactor coolant drain tank heat exchanger upon receipt of a high containment pressure signal.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure of one of these valves in the closed position during testing would inhibit the flow path through the reactor coolant drain tank heat exchanger. This would result in boiling of the water in the reactor coolant drain tank resulting in excess heat in containment. This increased heat load could cause unit shutdown due to exceeding Tech Spec containment temperature limits.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #C2

VALVE: 2KC338B, 2KC424B, 2KC425A

CATEGORY: B

CLASS: 2

FUNCTION: Isolates flow to the reactor vessel support coolers, reactor coolant pump motor bearings coolers, and reactor coolant pump thermal barriers, upon receipt of a high-high containment pressure signal.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure of this valve in the closed position during testing would inhibit flow to the reactor vessel support coolers, reactor coolant pump motor bearing coolers, and reactor coolant pump thermal barriers. This action could result in unit shutdown and possible damage to the vessel and reactor coolant pumps.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #D1

VALVE: 2NB262
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #E1

VALVE: 2NC57
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #E02

VALVE: 2NC32B, 2NC34A, 2NC36B

CATEGORY: B

CLASS: 1

FUNCTION: Opens to relieve excess pressurizer pressure to the pressurizer relief tank (PORV's).

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function, stroke time and verify failsafe actuation every 3 months.

BASIS FOR RELIEF: The current NRC position concerning pressurizer power operated reliefs (Branch Technical Position RSB 5-2) is that they should be full stroke exercised during cold shutdown versus quarterly during power operations due to the high probability of their sticking open.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #E03

VALVE: 2NC250A, 2NC251B, 2NC252B, 2NC253A
CATEGORY: B
CLASS: 1
FUNCTION: Valve is opened to provide reactor vessel head vent. Valve is closed during power operation.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Opening this valve during power operation increases the potential for a LOCA since only one valve would be isolating the reactor Coolant System from the Pressurizer Relief Tank.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #F1

VALVE: 2ND1B, 2ND2A

CATEGORY: B

CLASS: 1

FUNCTION: Valves open to provide suction to Residual Heat Removal Pump 2A during normal unit cooldown.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: These valves have been provided with an interlock which prevents their opening when Reactor Coolant System pressure is above approximately 425 PSIG.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #F1

VALVE: 2ND36B, 2ND37A

CATEGORY: B

CLASS: 1

FUNCTION: Valves open to provide suction to Residual Heat Removal Pump 2B during normal unit cooldown.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: These valves have been provided with an interlock which prevents their opening when Reactor Coolant System pressure is above approximately 425 PSIG.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #F03

VALVE: 2ND10, 2ND44
CATEGORY: C
CLASS: 2
FUNCTION: Residual heat removal pump discharge check valve.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: These valves can only be full stroke tested with the residual heat removal pump operating at full flow in recirculation to the refueling water storage tank. To do this requires closing one of the cold leg injection cross-tie valves and opening the manual valve (2ND33) leading back to the FWST. Based on Design Engineering and Westinghouse evaluation this renders both trains of ND inoperable. This is not allowed by Technical Specification 3/4.5.2 in Modes 1-3 since both trains are required to be operable. Technical Specification 3/4.5.3 requires one train of ND to be operable in Mode 4.

ALTERNATE TESTING: These valves will be exercised (partial stroke) by operating the residual heat removal pump in minimum flow mode every 3 months. These valves will be exercised (Full Stroke) during cold shutdown.

RELIEF REQUEST #F04

VALVE: 2ND32A, 2ND65B

CATEGORY: B

CLASS: 2

FUNCTION: Cross connect cold leg injection flow path from the two trains of residual heat removal.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Based on Design Engineering and Westinghouse evaluation, closing one of these valves renders both trains of residual heat removal inoperable. This is not allowed by Technical Specification 3/4.5.2 in Modes 1-3 since both trains are required to be operable. Technical Specification 3/4.5.3 requires one train of ND to be operable in Mode 4.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #G1

VALVE: 2NF229
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #H1

VALVE: 2NI12
CATEGORY: C
CLASS: 2
FUNCTION: Opens on flow from the Centrifugal Charging Pumps.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Using a centrifugal charging pump to provide flow to 2NI12 would result in injecting borated water into the Reactor Coolant System through the cold leg injection lines. This would result in thermal shock to the reactor coolant piping. During cold shutdowns exercising this valve could result in a low temperature overpressurization of the reactor coolant system.

ALTERNATE TESTING: Exercise check valve (full stroke) to the position required to fulfill its function at refueling.

RELIEF REQUEST #H2

VALVE: 2NI15, 2NI17, 1NI19, 2NI21, 2NI351, 2NI352, 2NI353, 2NI354
CATEGORY: C
CLASS: 1
FUNCTION: These valves open on flow from the centrifugal charging pumps.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Operating these valves would require using a centrifugal charging pump to provide flow which would result in injecting borated water into the Reactor Coolant System thereby causing thermal shock to the reactor coolant piping. During cold shutdowns exercising this valve could result in a low temperature overpressurization of the reactor coolant system.

ALTERNATE TESTING: Exercise check valve (full stroke) to the position required to fulfill its function at refueling.

RELIEF REQUEST #H3

VALVE: 2NI60, 2NI71, 2NI82, 2NI94

CATEGORY: A, C

CLASS: 1

FUNCTION: Opens on flow from the cold leg accumulators, safety injection pumps or residual heat removal pumps to provide flow to the reactor coolant system cold legs.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: These valves cannot be full or part stroke exercised during power operation since safety injection pump discharge pressure (approximately 1520 psig) cannot overcome reactor coolant system pressure.

ALTERNATE TESTING: Exercise check valve (partial stroke) to the position required to fulfill its function at cold shutdown. During each refueling, one of the four check valves will be disassembled and the disk will be mechanically exercised. The next refueling, a different valve in this group will be disassembled, and so on, such that all four valves will be tested within a four refueling time period. Should any one valve fail to stroke acceptably, the remaining three valves will also be disassembled.

RELIEF REQUEST #H4

VALVE: 2NI48
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #H5

VALVE: 2NI59, 2NI70, 2NI81, 2NI93

CATEGORY: A,C

CLASS: 1

FUNCTION: Opens on flow from the cold leg accumulators to provide flow to the reactor coolant system cold legs.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: These valves cannot be full or part stroke exercised during power operation since cold leg accumulator pressure (approximately 450 psig) cannot overcome reactor coolant system pressure. During cold shutdown exercise these valves could result in a low temperature overpressurization of the reactor coolant system.

ALTERNATE TESTING: During approach to or startup from cold shutdown, these valves will be partial stroked by opening associated Cold Leg Accumulator isolation valve and noting decrease in level. During each refueling, one of the four check valves will be disassembled, and the disk will be mechanically exercised. The next refueling a different valve in this group will be disassembled, and so on, such that all four valves will be tested within a four refueling time period. Should any one valve fail to stroke acceptably, the remaining three valves will also be disassembled.

RELIEF REQUEST #H6

VALVE: 2NI101

CATEGORY: C

CLASS: 2

FUNCTION: Opens to provide flow from refueling water storage tank to safety injection pumps suction.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Valves cannot be full stroke exercised during power operation since the only full flow flowpath discharges into the reactor coolant system. Safety injection pump discharge pressure (\approx 1520 psig) cannot overcome reactor coolant system pressure. During cold shutdown this valve cannot be full stroke exercised since this could result in a low temperature overpressurization of the reactor coolant system.

ALTERNATE TESTING: Exercise check valve (partial stroke) to the position required to fulfill its function every 3 months and exercise check valve (full stroke) to the position required to fulfill its function during refueling.

RELIEF REQUEST #H7

VALVE: 2NI100B

CATEGORY: B

CLASS: 2

FUNCTION: Provides suction for both trains of safety injection pumps from the refueling water storage tank.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure of this valve in the closed position during testing would render both trains of safety injection pumps inoperable.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #H8

VALVE: 2NI147B

CATEGORY: B

CLASS: 2

FUNCTION: Valve is normally open to provide miniflow path to the refueling water storage tank.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure of this valve in the closed position during testing would result in loss of miniflow path for both trains of safety injection. This would result in pump damage due to dead heading the safety injection pumps in the event of a safety injection signal with reactor coolant pressure above 1520 psig (Safety Injection Pump Discharge Pressure).

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #H9

VALVE: 2NI116, 2NI148

CATEGORY: C

CLASS: 2

FUNCTION: Opens on flow from the safety injection pumps to the reactor coolant cold legs or hot legs.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Valves cannot be full or partial stroke exercised during operation since the only flowpath discharges into the reactor coolant system. Safety injection pump discharge pressure (\approx 1520 psig) cannot overcome reactor coolant system pressure. During cold shutdown these valves cannot be full or partial stroke exercised since this could result in a low temperature overpressurization of the reactor coolant system.

ALTERNATE TESTING: Exercise check valve (Full Stroke) to the position required to fulfill its function at refueling.

RELIEF REQUEST #H10

VALVE: 2NI124, 2NI128, 2NI156, 2NI157, 2NI159, 1NI160

CATEGORY: A, C

CLASS: 1

FUNCTION: These valves open to provide hot leg recirculation flow from the safety injection pumps.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Valves cannot be full or partial stroke exercised during power operation since the only flowpath discharges into the reactor coolant system. Safety injection pump discharge pressure (\approx 1520 psig) cannot overcome reactor coolant system pressure. During cold shutdown these valves cannot be full or partial stroke exercised since this could result in a low temperature overpressurization of the reactor coolant system.

ALTERNATE TESTING: Exercise check valve (full stroke) to the position required to fulfill its function at refueling.

RELIEF REQUEST #H11

VALVE: 2NI125, 2NI129, 2NI126, 2NI134
CATEGORY: A, C
CLASS: 1
FUNCTION: Open on flow from the residual heat removal pumps to the reactor coolant hot legs.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Valves cannot be full or partial stroke exercised during power operation since the only flowpath discharges into the reactor coolant system. Residual Heat Removal Pump Discharge Pressure (approximately 210 psig) or Safety Injection Pump Discharge Pressure (approximately 1520 psig) cannot overcome reactor coolant system pressure.

ALTERNATE TESTING: Exercise check valve (full stroke) to the position required to fulfill its function at refueling.

RELIEF REQUEST #H12

VALVE: 2NI162A

CATEGORY: B

CLASS: 2

FUNCTION: Valve is normally open to provide cold leg injection flow from both trains of safety injection pumps.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure of this valve in the closed position during testing would result in loss of cold leg injection flow from the safety injection pumps rendering both trains of safety injection inoperable.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke time during cold shutdown.

RELIEF REQUEST #H13

VALVE: 2NI165, 2NI167, 2NI169, 2NI171

CATEGORY: A, C

CLASS: 1

FUNCTION: Valves open on cold leg injection flow from the safety injection pumps.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Valves cannot be full or partial stroke exercised during power operation since the only flowpath discharges into the reactor coolant system. Safety injection pump discharge pressure (\approx 1520 psig) cannot overcome reactor coolant system pressure. During cold shutdown these valves cannot be full or partial stroke exercised since this could result in a low temperature overpressurization of the reactor coolant system.

ALTERNATE TESTING: Exercise check valve (full stroke) to the position required to fulfill its function at refueling.

RELIEF REQUEST #H14

VALVE: 2NI175, 2NI176, 2NI180, 2NI181
CATEGORY: A, C
CLASS: 1
FUNCTION: Valves open on cold leg injection flow from the residual heat removal pumps.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months. *

BASIS FOR RELIEF: Valves cannot be full or partial stroke exercised during power operation since the only flowpath discharges into the reactor coolant system. Residual Heat Removal Pump Discharge Pressure (= 210 psig) cannot overcome reactor coolant system pressure.

ALTERNATE TESTING: Exercise check valve (full stroke) to the position required to fulfill its function at cold shutdown.

RELIEF REQUEST #H15

VALVE: 2NI248, 2NI249, 2NI250, 2NI251, 2NI252, 1NI253
CATEGORY: A, C
CLASS: 1
FUNCTION: Valves open to provide flow from upper head injection accumulator to the reactor vessel during accident conditions.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Valves cannot be full or partial stroke exercised during power operation since upper injection accumulator pressure (approximately 1250 psig) cannot overcome reactor coolant system pressure. Valve cannot be full or partial stroke exercised during cold shutdown since this could result in a low temperature overpressurization of the reactor coolant system.

ALTERNATE TESTING: During each refueling, one of the 8" check valves (2NI250, 2NI251, 2NI252 or 2NI253) and one of the 12" check valves (2NI248 or 2NI249) will be disassembled and the disk will be mechanically exercised. The next refueling, a different valve in each group will be disassembled, and so on, such that all four 8" valves will be tested within a four refueling time period and both 12" valves will be tested within a two refueling time period. Should any one valve fail to stroke acceptably, the remaining valves in that group will also be disassembled.

RELIEF REQUEST #H16

VALVE: 2NI342

CATEGORY: C

CLASS: 2

FUNCTION: Opens to provide suction to the safety injection pumps from residual heat removal pump 2B discharge during the recirculation phase following safety injection actuation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Valves cannot be full stroke exercised during power operation since the only full flow flowpath discharges into the Reactor Coolant System. Safety injection pump discharge pressure (approximately 1520 psig) cannot overcome Reactor Coolant System pressure.

Valve cannot be full stroke exercised during cold shutdown since this could result in a cold overpressurization of the Reactor Coolant System.

ALTERNATE TESTING: Exercise check valve (partial stroke) to the position required to fulfill its function every 3 months.
Exercise check valve (full stroke) to the position required to fulfill its function at refueling.

RELIEF REQUEST #H18

VALVE: 2NI173A, 2NI178B

CATEGORY: B

CLASS: 2

FUNCTION: Each valve isolates two of the four cold leg injection flow paths from the residual heat removal discharge crossover line.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Based on Design Engineering and Westinghouse evaluation, closing one of these valves renders both trains of residual heat removal inoperable. This is not allowed by Technical Specification 3/4.5.2 in Modes 1-3 since both trains are required to be operable. Technical Specification 3/4.5.3 requires that one train of ND to be operable in Mode 4.

ALTERNATE TESTING: Valves will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #H19

VALVE: 2NI183B

CATEGORY: B

CLASS: 2

FUNCTION: Open to align hot leg recirculation during recirculation phase following safety injection actuation.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Based on Design Engineering and Westinghouse evaluation, in order for a train of ND to be operable to perform its ECCS function, it must be able to discharge into all four cold leg injection lines. This is in the event of single train failure. With this additional valve open, one ND pump could then be aligned to all four cold leg injection paths plus two hot legs. This has the potential of allowing pump runout during an ECCS actuation.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #H20

VALVE: 2NI9A, 2NI10B

CATEGORY: B

CLASS: 2

FUNCTION: Opens to allow flow from centrifugal charging pump discharge to reactor coolant loop cold leg.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Exercising these valves quarterly during power operations would result in flow of non-preheated water through the injection lines and thermal shocking of the injection nozzles.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #H21

VALVE: 2NI184B, 1NI185A

CATEGORY: B

CLASS: 2

FUNCTION: Opens to provide flow from the Containment Sump to the suction of Residual Heat Removal and Containment Spray Pumps during post accident recirculation phase.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: To prevent water from entering lower containment when cycling these valves, piping downstream must be drained. This results in making one train of ECCS inoperable for an extended period of time until completion of the test, refilling the piping and realignment of isolation valves. Also, the large amount of potentially contaminated water that must be drained is a major Health Physics and Radwaste Chemistry problem.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during Cold Shutdown.

RELIEF REQUEST #I1

VALVE: 2NS13, 2NS16, 2NS30, 2NS33, 2NS41, 2NS46

CATEGORY: C

CLASS: 2

FUNCTION: Opens on flow from containment spray and residual heat removal pumps to the containment spray headers.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: To full or partial stroke these valves flow from the containment spray or residual heat removal pumps would have to be initiated. This would result in spraying water through the spray nozzles into containment.

ALTERNATE TESTING: During each refueling one of six check valves will be disassembled and the disk will be mechanically exercised. The next refueling a different valve in this group will be disassembled and so on, such that all six valves will be tested within a six refueling time period. Should any one valve fail to stroke acceptably, the remaining five valves will also be disassembled.

RELIEF REQUEST #12

VALVE: 2NS4, 2NS21, 2NS98, 2NS99

CATEGORY: C

CLASS: 2

FUNCTION: Valves open to provide flow from the refueling water storage tank to the spray headers.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: These valves cannot be full stroke exercised since the only full flow flowpath is to the spray headers which would result in spraying containment.

ALTERNATE TESTING: Exercise check valve (partial stroke) to the position required to fulfill its function every 3 months. During each refueling, one of the 8" check valves (2NS98, 2NS99) and one of the 12" check valves (2NS4, 2NS21) will be disassembled and the disk will be mechanically exercised. The next refueling, the other valve in each group will be disassembled, and so on, such that both valves within each group will be tested within a two refueling time period. Should any one valve fail to stroke acceptably, the other valve in that group will also be disassembled.

RELIEF REQUEST #J1

VALVE: 2NV15B
CATEGORY: B
CLASS: 2
FUNCTION: Valves closes to isolate flow to the letdown heat exchanger.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure of this valve in the closed position during testing would result in loss of pressurizer level control and could result in plant shutdown.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #J2

VALVE: 2NV89A, 2NV91B

CATEGORY: B

CLASS: 2

FUNCTION: These valves isolate the return flow path from the reactor coolant pump seal water supply.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Closure of one of these valves during power operation would inhibit seal water flow across the reactor coolant pump seals. This would result in damage to the pump seals.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #J3

VALVE: 2NV188A, 2NV189B

CATEGORY: B

CLASS: 2

FUNCTION: Valves close to isolate the volume control tank (normal charging supply) upon receipt of a safety injection signal.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Closure of one of these valves during normal unit operation would isolate the normal suction for the charging pumps. Alternate suction paths would result in increasing the reactor coolant system boron inventory and could result in plant shutdown. In addition, seal water for the reactor coolant pumps would be inhibited. This may result in damage to the reactor coolant pump seals.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #J4

VALVE: 2NV312A, 2NV314B

CATEGORY: B

CLASS: 2

FUNCTION: Valves close to isolate the charging line to the Reactor Coolant System upon receipt of a safety injection signal.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Closure of one of these valves during power operation would isolate charging flow to the Reactor Coolant System. This could result in loss of pressurizer level control and cause plant shutdown.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #J5

VALVE: 2NV254

CATEGORY: C

CLASS: 2

FUNCTION: Valves opens on flow from the refueling water storage tank to suction of the centrifugal charging pumps.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Valve cannot be full or partial stroke exercised during operation as this would increase the reactor coolant system boron inventory and possibly cause a plant shutdown. This valve cannot be full stroke exercised during cold shutdown since this could result in a cold overpressurization of the reactor coolant system.

ALTERNATE TESTING: Exercise check valve (partial stroke) to the position required to fulfill its function at cold shutdown. Exercise check valve (full stroke) to the position required to fulfill its function at refueling.

RELIEF REQUEST #J6

VALVE: 2NV270, 2NV290

CATEGORY: C

CLASS: 2

FUNCTION: Open to provide flow from the centrifugal charging pumps to the normal charging line or Cold Leg Injection Header.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Valves cannot be full stroke exercised during power operation. The only full stroke flowpath is through the Cold Leg Injection Header into the reactor coolant system. This would cause an increase in reactor coolant system boron inventory and possibly cause plant shutdown. Valves cannot be full stroke exercised during cold shutdown since this could result in a cold overpressurization of the reactor coolant system.

ALTERNATE TESTING: Exercise check valve (partial stroke) to the position required to fulfill its function every 3 months.
Exercise check valve (full stroke) to the position required to fulfill its function at refueling.

RELIEF REQUEST #J7

VALVE: 2NV202B, 2NV203A

CATEGORY: B

CLASS: 2

FUNCTION: Valves can be closed to isolate the centrifugal charging pump miniflow line during cold leg injection phase following a LOCA.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure of one of these valves in the closed position during testing would isolate the centrifugal charging pumps miniflow line. This path must remain open in the event of a LOCA until the operator verifies a primary side break at which time the valves are closed. In the event of a secondary side break, the miniflow path must remain open in order to prevent possible dead heading and damaging the centrifugal charging pumps.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #J8

VALVE: 2NV813

CATEGORY: C

CLASS: 2

FUNCTION: Opens to provide suction to the centrifugal charging pumps from residual heat removal pump 2A discharge during the recirculation phase following safety injection actuation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Valve cannot be full stroke exercised during power operation since the only full flow flowpath discharges into the Reactor Coolant System. This would cause an increase in Reactor Coolant System boron inventory and possibly cause plant shutdown. Valve cannot be partial stroke exercised during power operation. Use of the partial stroke flowpath (through the miniflow line to the seal water heat exchanger) would: 1) Cause an increase in the boron concentration in the volume control tank which is the normal source of makeup water for the positive displacement charging pump. This would cause an increase in the Reactor Coolant System boron inventory and possibly cause plant shutdown. 2) Cause the return path for the reactor coolant pump seal water to be deadheaded due to the miniflow path pressure. This would result in loss of cooling to the seals and cause possible pump damage. Valve cannot be full stroke exercised during cold shutdown since this could result in a low temperature overpressurization of the Reactor Coolant System.

ALTERNATE TESTING: Exercise check valve (partial stroke) to the position required to fulfill its function during cold shutdown and exercise check valve (full stroke) to the position required to fulfill its function during refueling.

RELIEF REQUEST #J9

VALVE: 2NV874

CATEGORY: A, C

CLASS: 2

FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #J10

VALVE: 2NV252B, 2NV253A

CATEGORY: B

CLASS: 2

FUNCTION: Aligns refueling water storage tank (FWST) to the suction of the centrifugal charging pumps upon receipt of a safety injection signal.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: If one of these valves were to fail in the open position during testing, the FWST would be aligned to the suction of the charging pumps. This would result in an increase in RCS Boron inventory and could result in plant shutdown.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #K1

VALVE: 2NW6, 2NW63

CATEGORY: C

CLASS: 2

FUNCTION: Open to provide flow from Nuclear Service Water System to the containment valve injection water surge chambers.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Operating these valves would result in placing dirty water in the NW System.

ALTERNATE TESTING: Exercise check valve (full stroke) to the position required to fulfill its function at refueling (NW surge chamber can be drained and isolated at this time).

RELIEF REQUEST #K2

VALVE: 2NW17, 2NW21, 2NW24, 2NW27, 2NW37, 2NW40, 2NW43, 2NW47, 2NW50, 2NW53, 2NW70, 2NW74, 2NW77, 2NW80, 2NW83, 2NW86, 2NW89, 2NW92, 2NW95, 2NW98, 2NW101, 2NW107, 2NW109, 2NW111, 2NW114, 2NW120, 2NW121 through 2NW136, 2NW138, 2NW139, 2NW140, 2NW141, 2NW147, 2NW148, 2NW159, 2NW160, 2NW163, 2NW164, 2NW168, 2NW169, 2NW171, 2NW172, 2NW178, 2NW179, 2NW183, 2NW184, 2NW188, 2NW189, 2NW193, 2NW194, 2NW196, 2NW197, 2NW201, 2NW202, 2NW205, 2NW206, 2NW209, 2NW210, 2NW213, 2NW214, 2NW218, 2NW219, 2NW223, 2NW224, 2NW230, 2NW231, 2NW235, 2NW236, 2NW240, 2NW241, 2NW245, 2NW246

CATEGORY: C

CLASS: 2

FUNCTION: These valves open to supply containment valve injection water to certain containment isolation valves.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Normal plant conditions will not allow these check valves to operate since the valves fed by the NW System are in systems which are normally pressurized with flow passing through them. To operate the check valves normal system pressures would have to be bled off in order to allow NW pressure to open the check valves. This is not possible during normal plant operation.

ALTERNATE TESTING: Exercise check valve (full stroke) to the position required to fulfill its function at refueling.

RELIEF REQUEST #L1

VALVE: 2RF392, 2RF448
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #M1

VALVE: 2RN49A, 2RN50B, 2RN51A, 2RN52B

CATEGORY: B

CLASS: 3

FUNCTION: These valves close upon receipt of a high-high containment pressure signal in order to isolate the Unit 2 non-essential supply and return headers.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure of one of these valves in the closed position during testing would result in loss of nuclear service water flow to the upper and lower containment ventilation units, incore instrument room ventilation units, reactor coolant pump motor coolers, and other misc. loads. Tech Spec limits in containment temperature could not be maintained without cooling water to the containment ventilation units. Possible damage to the reactor coolant pump motors might occur.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #M2

VALVE: 2RN405, 2RN438
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #M3

VALVE: 2RN437B

CATEGORY: B

CLASS: 2

FUNCTION: This valve closes on a high-high containment pressure signal to isolate the supply header to lower containment.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure of this valve in the closed position during testing would result in loss of nuclear service water flow to the reactor coolant pump motor coolers. This would result in unit shutdown and possible damage to the reactor coolant pump motors.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke time during cold shutdown.

RELIEF REQUEST #M4

VALVE: 2RN484A, 2RN487B

CATEGORY: B

CLASS: 2

FUNCTION: Valves close on a high-high containment pressure signal to isolate the lower containment return header.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure of one of these valves in the closed position during testing would result in loss of nuclear service water flow to the reactor coolant pump motor coolers. This would result in unit shutdown and possible damage to the reactor coolant pump motors.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #N1

VALVE: 2SM1, 2SM3, 2SM5, 2SM7
CATEGORY: B
CLASS: 2
FUNCTION: Main steam isolation valves.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function, stroke time, and verify fail safe actuation every 3 months.

BASIS FOR RELIEF: Closure of these valves during power operation could introduce a severe transient in the main steam lines which could cause a unit trip.

ALTERNATE TESTING: This valve will be partially stroked at least once per 92 days per PT/2/A/4250/01 (Main Steam Isolation Valve Movement Test). In addition, valve will be exercised (full stroke) to the position required to fulfill its function, stroke time, and fail safe actuation verified at cold shutdown.

RELIEF REQUEST #Q1

VALVE: 2VB85
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #R1

VALVE: 2VI79
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #R2

VALVE: 2VI77B

CATEGORY: A

CLASS: 2

FUNCTION: Provides containment isolation. Closes upon receipt of a containment high-high pressure signal.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months.

BASIS FOR RELIEF: Failure this valve in the closed position during testing would result in loss of instrument air supply to valves and controls within containment. This would result in loss of normal reactor coolant letdown, containment ventilation unit controls, normal air supply to the power operated relief valves, etc., thereby possibly causing unit shutdown.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #R3

VALVE: 2VI367, 2VI368

CATEGORY: C

CLASS: --

FUNCTION: Close to prevent reverse flow of nitrogen from cold leg accumulator when supplying PORV's from safety air source.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of Tech Spec Surveillance Requirements 4.4.4.3 every 18 months.

RELIEF REQUEST #R4

VALVE: 2VI369, 2VI370

CATEGORY: C

CLASS: --

FUNCTION: Open to provide flowpath for nitrogen from cold leg accumulators when supplying PORV's from safety air source.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve operation when passing flow.

ALTERNATE TESTING: Verify proper valve operation during performance of Tech Spec Surveillance Requirements 4.4.4.3 every 18 months.

RELIEF REQUEST #S1

VALVE: 2VP1B, 2VP2A, 2VP3B, 2VP4A, 2VP6B, 2VP7A, 2VP8B, 2VP9A, 2VP10A,
2VP11B, 2VP12A, 2VP13B, 2VP15A, 2VP16B, 2VP17A, 2VP18B, 2VP19A,
2VP20B

CATEGORY: A

CLASS: 2

FUNCTION: Provide containment isolation.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function, stroke time and verify fail safe actuation every 3 months.

BASIS FOR RELIEF: Technical Specification 3.6.1.9 requires these valves to be sealed closed during Modes 1-4.

ALTERNATE TESTING: Valve will be exercised (full stroke) to the position required to fulfill its function, stroke time and fail safe operation verified whenever the valves are cycled, and the elapsed time since the previous test has been three months or greater.

RELIEF REQUEST #T1

VALVE: 2VS56
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #U1

VALVE: 2VY11, 2VY16
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #V1

VALVE: 2YM121
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #W1

VALVE: 2VG15, 2VG16, 2VG29, 2VG30, 2VG31, 2VG32, 2VG59, 2VG60, 2VG73,
2VG74, 2VG75, 2VG76

CATEGORY: C

CLASS: 3

FUNCTION: Open to supply starting air to Diesel Generators.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position
required to fulfill its function every 3 months.

BASIS FOR RELIEF: No method exists of directly verifying valve movement.
Failure of one valve to operate will result in
increase in start time of diesel generator during
performance of monthly Tech Spec Surveillance
Requirement 4.8.1.1.2.a.4.

ALTERNATE TESTING: Valve will be verified to operate during monthly Tech
Spec Diesel Test (PT/2/A/4350/02A, B - Diesel
Generator A, B Operability Test) by verifying diesel
starts within required time. In addition, during cold
shutdown, a test will be performed which verifies the
diesel is able to start within required time with one
starting air tank disabled at a time. The test will
be performed twice, first with one bank disabled, then
with the opposite bank disabled.

RELIEF REQUEST #W2

VALVE: 2VG25, 2VG26, 2VG27, 2VG28, 2VG69, 2VG70, 2VG71, 2VG72

CATEGORY: B

CLASS: 3

FUNCTION: Open to supply starting air to Diesel Generators.

TEST REQUIREMENT(S): Exercise valve (full stroke) to the position required to fulfill its function and stroke time every 3 months. Verify remote position indication every 2 years.

BASIS FOR RELIEF: Valve design does not provide any indication of position. Failure of this valve to perform its required function will result in increase in start time of diesel generator during performance of monthly Tech Spec Surveillance Requirement 4.8.1.1.2.a.4.

ALTERNATE TESTING: Valve will be verified to operate during monthly Tech Spec Diesel Test (PT/2/A/4350/02A, B - Diesel Generator A, B Operability Test) by verifying diesel starts within required time. In addition, during cold shutdown, a test will be performed which verifies the diesel is able to start within required time with one starting air tank disabled at a time. The test will be performed twice, first with one bank disabled, then with the opposite bank disabled.

RELIEF REQUEST #X01

VALVE: 2KD6, 2KD21

CATEGORY: C

CLASS: 3

FUNCTION: Opens on diesel engine start to pass cooling water flow from the diesel generator engine driven jacket water circulation pump.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: No method exists of directly verifying valve movement.

ALTERNATE TESTING: Valve will be verified to operate during monthly Tech Spec Diesel Test (PT/2/A/4350/02A, B - Diesel Generator A, B Operability Test) by verifying proper cooling is supplied during diesel run. In addition, the valves will be disassembled (as required by IE Bulletin No. 83-03) during each refueling and the mechanical integrity of the valve internals verified.

RELIEF REQUEST #Y01

VALVE: 2IASV5080, 2IASV5160

CATEGORY: B

CLASS: 2

FUNCTION: Provides air to the personnel air lock door seals. Valves close upon receipt of a safety injection signal.

TEST REQUIREMENT(S): Stroke time valve (full stroke) every 3 months.
Verify Remove Position Indication every 2 years.

BASIS FOR RELIEF: Valve design does not provide any indication of position.

ALTERNATE TESTING: Valve will not be stroke timed. Valve operability and fail safe actuation is verified quarterly by verifying valves ability to pass/prevent air flow. In addition, there is not any remote position indication to verify since indicating lights only indicate whether or not power is supplied to the solenoid.

RELIEF REQUEST #Z01

VALVE: 2IACV5340, 2IACV5350, 2IACV5360, 2IACV5370, 2IACV5380, 2IACV5390
CATEGORY: A, C
CLASS: 2
FUNCTION: Provides containment isolation.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying closure upon flow reversal.

ALTERNATE TESTING: Verify valve closure during performance of leak rate test during refueling.

RELIEF REQUEST #AA1

VALVE: 2FW28, 2FW56

CATEGORY: C

CLASS: 2

FUNCTION: Opens on flow from refueling water storage tank to suction of Residual Heat Removal Pumps.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: These valves can only be full stroke tested with the residual heat removal pump operating at full flow in recirculation to the refueling water storage tank. To do this requires closing one of the cold leg injection cross-tie valves and opening the manual valve (2ND33) leading back to the FWST. Based on Design Engineering and Westinghouse evaluation, this renders both trains of ND inoperable. This is not allowed by Technical Specification 3/4.5.2 in Modes 1-3 since both trains are required to be operable. Technical Specification 3/4.5.3 requires one train of ND to be operable in Mode 4.

ALTERNATE TESTING: Full stroke testing will be performed during cold shutdown. Valves will be partial stroked quarterly.

RELIEF REQUEST #BB1

VALVE: 2SA3, 2SA6

CATEGORY: C

CLASS: 2

FUNCTION: Opens to provide steam flow from the Main Steam system to the Auxiliary Feedwater Pump Turbine. Closes to prevent steam flow reversal in the event of a loss of steam generator.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: System design does not provide any indication for verifying valve position.

ALTERNATE TESTING: Verification of ability to pass flow will be demonstrated quarterly by verifying one main steam header at a time is capable of operating the turbine driven auxiliary feedwater pump. Verification of ability to prevent reverse flow will be performed during refueling. During each refueling one of the two check valves will be disassembled and the disk will be mechanically exercised. The next refueling the other valve will be disassembled, such that both valves will be tested within a two refueling time period. Should anyone valve fail to stroke acceptably, the remaining valve will also be disassembled.