

INSERVICE TESTING PROGRAM FOR
PUMPS AND VALVES

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
UNIT 1

Docket No. 50-413

Revision 11

8512060249 851127
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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. 1 1φ

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 Regs - 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.

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
PUMP INSERVICE TESTING PROGRAM

PUMP	TEST PARAMETER MEASURED						REL REQS	FLOW DIAGRAM	COORD- INATES
	SPEED	INLET PRESSURE	DIFF PRESSURE	FLOW RATE	VIBRATION AMPLITUDE	BEARING TEMP			
1. Safety Injection Pumps (1A,1B)	NR	Q	Q	Q	Q	YR		CN-1562-1.2	J-10, D-10
2. Residual Heat Removal Pumps (1A,1B)	NR	Q	Q	Q	Q	YR		CN-1561-1.0 CN-1561-1.1	G-11 G-11
3. Nuclear Service Water Pumps (1A,1B)	NR	Q	Q	Q	Q	YR	1	CN-1574-1.0 CN-1574-1.2	H-4 H-4
4. Containment Spray Pumps (1A,1B)	NR	Q	Q	Q	Q	YR		CN-1563-1.0	J-10, D-10
5. Component Cooling Pumps (1A1, 1A2, 1B1, 1B2)	NR	Q	Q	Q	Q	YR		CN-1573-1.0	E-2, E-6, E-9, E-12

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DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
PUMP INSERVICE TESTING PROGRAM

PUMP	TEST PARAMETER MEASURED						RELF REQS	FLOW DIAGRAM	COORD- INATES
	SPEED	INLET PRESSURE	DIFF PRESSURE	FLOW RATE	VIBRATION AMPLITUDE	BEARING TEMP			
6. Centrifugal Charging Pumps (1A, 1B)	NR	Q	Q	Q	Q	YR		CN-1554-1.7	I-8, D-8
7. Motor Driven Auxili- ary Feedwater Pumps (1A,1B)	NR	Q	Q	Q	Q	YR		CN1592-1.0	G-3, G-7
8. Turbine Driven Auxili- ary Feedwater Pump (No. 1)	Q	Q	Q	Q	Q	YR		CN-1592-1.0	G-11
9. Control Area Chilled Water Pumps (1CRA-CHWP-1, 2CRA-CHWP-1)	NR	Q	Q	Q	Q	YR		CN-1578-2.0 CN-1578-2.2	C-7 C-7

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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 1A and 1B

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.

RELIEF REQUEST #2

DELETED

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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
RD - Rupture Disk
BF - Butterfly Valve
ND - Needle Valve

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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, relief valves, or rupture disks.

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.

DT - Test Category D Valves per IWV-3600

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 (1NC32B, 1NC34A, 1NC36B), 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

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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.

VALVE
SUGAR
VALVE
IN SERVICE TESTING CONTINUED
CHARGE MAKING STATION
FORD COMPANY
VALVE

CLARKSON NEWSTON HOLDINGS

[illegible]

[illegible]

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二、
三、
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五、
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七、
八、
九、
十、

1001 E. PLUM STREET
 CHANDLER, ARIZONA 85226
 (602) 998-1100
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 WWW: WWW.POWER.COM.AZ

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

TEST NO.	TEST GROUP	ESF	VALUE TIME	CODED- INATE	FLOW DIAGRAM	TEST ALTN	TEST READ	TEST READ	WAVE FORM	ALTR TYPE	VALU TYPE	VALU SIZE	PROG- TIME	UNIT COUNT	CODE CLASS	TEST NO.
100	100	100	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	100
101	101	101	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	101
102	102	102	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	102
103	103	103	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	103
104	104	104	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	104
105	105	105	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	105
106	106	106	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	106
107	107	107	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	107
108	108	108	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	108
109	109	109	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	109
110	110	110	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	110
111	111	111	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	111
112	112	112	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	112
113	113	113	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	113
114	114	114	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	114
115	115	115	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	115
116	116	116	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	116
117	117	117	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	117
118	118	118	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	118
119	119	119	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	119
120	120	120	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	120
121	121	121	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	121
122	122	122	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	122
123	123	123	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	123
124	124	124	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	124
125	125	125	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	125
126	126	126	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	126
127	127	127	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	127
128	128	128	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	128
129	129	129	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	129
130	130	130	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	130
131	131	131	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	131
132	132	132	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	132
133	133	133	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	133
134	134	134	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	134
135	135	135	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	135
136	136	136	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	136
137	137	137	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	137
138	138	138	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	138
139	139	139	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	139
140	140	140	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	140
141	141	141	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	141
142	142	142	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	142
143	143	143	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	143
144	144	144	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	144
145	145	145	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	145
146	146	146	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	146
147	147	147	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	147
148	148	148	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	148
149	149	149	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	149
150	150	150	20	000	100-1000-11	100	100	100	100	100	100	100	100	100	100	150

DUKE POWER COMPANY
CATAMBA NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM PSGN	TEST REQD	RELF RQST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
ICF 42	2	B		18.	GA	H	O	MT	B01	CS	ICN-1591.11.	F09	5	F	PRF	
ICF 42	2	B		18.	GA	H	O	RP			ICN-1591.11.	F09		F	PRF	
ICF 51	2	B		18.	GA	H	O	Q	B01	CS	ICN-1591.11.	F06		F	PRF	
ICF 51	2	B		18.	GA	H	O	MT	B01	CS	ICN-1591.11.	F06	5	F	PRF	
ICF 51	2	B		18.	GA	H	O	RP			ICN-1591.11.	F06		F	PRF	
ICF 60	2	B		18.	GA	H	O	Q	B01	CS	ICN-1591.11.	F03		F	PRF	
ICF 60	2	B		18.	GA	H	O	MT	B01	CS	ICN-1591.11.	F03	5	F	PRF	
ICF 60	2	B		18.	GA	H	O	RP			ICN-1591.11.	F03		F	PRF	
ICF 87	2	B		2.0	GA	AD	C	Q			ICN-1591.11.	F02		F	PRF	
ICF 87	2	B		2.0	GA	AD	C	FS			ICN-1591.11.	F02		F	PRF	
ICF 87	2	B		2.0	GA	AD	C	MT			ICN-1591.11.	F02	5	F	PRF	
ICF 87	2	B		2.0	GA	AD	C	RP			ICN-1591.11.	F02		F	PRF	
ICF 88	2	B		2.0	GA	AD	C	Q			ICN-1591.11.	F06		F	PRF	
ICF 88	2	B		2.0	GA	AD	C	FS			ICN-1591.11.	F06		F	PRF	
ICF 88	2	B		2.0	GA	AD	C	MT			ICN-1591.11.	F06	5	F	PRF	
ICF 88	2	B		2.0	GA	AD	C	RP			ICN-1591.11.	F06		F	PRF	
ICF 89	2	B		2.0	GA	AD	C	Q			ICN-1591.11.	F09		F	PRF	
ICF 89	2	B		2.0	GA	AD	C	FS			ICN-1591.11.	F09		F	PRF	
ICF 89	2	B		2.0	GA	AD	C	MT			ICN-1591.11.	F09	5	F	PRF	
ICF 89	2	B		2.0	GA	AD	C	RP			ICN-1591.11.	F09		F	PRF	
ICF 90	2	B		2.0	GA	AD	C	Q			ICN-1591.11.	F13		F	PRF	
ICF 90	2	B		2.0	GA	AD	C	FS			ICN-1591.11.	F13		F	PRF	
ICF 90	2	B		2.0	GA	AD	C	MT			ICN-1591.11.	F13	5	F	PRF	
ICF 90	2	B		2.0	GA	AD	C	RP			ICN-1591.11.	F13		F	PRF	
IFD 22	3	B		2.0	GL	S	C	Q			ICN-1609.30.	J13			PRF	01
IFD 22	3	B		2.0	GL	S	C	FS			ICN-1609.30.	J13			PRF	
IFD 22	3	B		2.0	GL	S	C	MT			ICN-1609.30.	J13	2		PRF	08

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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.
1FD 62	3	B		2.0	GL	S	C	Q			CN-1609.31.	J12			PRF	01
1FD 62	3	B		2.0	GL	S	C	FS			CN-1609.31.	J12			PRF	
1FD 62	3	B		2.0	GL	S	C	MT			CN-1609.31.	J12	2		PRF	08
1FW 01A	2	B		8.0	GA	EL	C	Q			CN-1571.10.	J13		S	PRF	
1FW 01A	2	B		8.0	GA	EL	C	MT			CN-1571.10.	J13	10	S	PRF	
1FW 01A	2	B		8.0	GA	EL	C	RP			CN-1571.10.	J13		S	PRF	
1FW 04	2	A	X	6.0	GA	M	LC	LT			CN-1571.10.	L07			PRF	
1FW 05	2	AC	X	6.0	CK	SA	-	LT			CN-1571.10.	L05			PRF	
1FW 11	2	A	X	4.0	FL	M	LC	LT			CN-1571.10.	J04			PRF	
1FW 13	2	A	X	4.0	PL	M	LC	LT			CN-1571.10.	J05			PRF	
1FW 27A	2	B		12.	GA	EL	O	Q			CN-1571.10.	F03			PRF	
1FW 27A	2	B		12.	GA	EL	O	MT			CN-1571.10.	F03	15		PRF	
1FW 27A	2	B		12.	GA	EL	O	RP			CN-1571.10.	F03			PRF	
1FW 28	2	C		12.	CK	SA	-	CV	AA1	CZ	CN-1571.10.	F02			O/P	07
1FW 32B	2	B		8.0	GA	EL	C	Q			CN-1571.10.	J13		S	PRF	
1FW 32B	2	B		8.0	GA	EL	C	MT			CN-1571.10.	J13	10	S	PRF	
1FW 32B	2	B		8.0	GA	EL	C	RP			CN-1571.10.	J13		S	PRF	
1FW 33A	2	B		2.0	GL	EL	O	Q			CN-1571.10.	B11		S	PRF	
1FW 33A	2	B		2.0	GL	EL	O	MT			CN-1571.10.	B11	10	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.
1FW 33A	2	B		2.0	GL	EL	O	RP			1CN-1571.10.	B11		S	PRF	
1FW 49B	2	B		2.0	GL	EL	O	Q			1CN-1571.10.	B07		S	PRF	
1FW 49B	2	B		2.0	GL	EL	O	MT			1CN-1571.10.	B07	10	S	PRF	
1FW 49B	2	B		2.0	GL	EL	O	RP			1CN-1571.10.	B07		S	PRF	
1FW 52	-	C		4.0	CK	SA	-	CV			1CN-1571.10.	E10			PRF	101
1FW 55B	2	B		12.	GA	EL	C	Q			1CN-1571.10.	H03			PRF	
1FW 55B	2	B		12.	GA	EL	C	MT			1CN-1571.10.	H03	15		PRF	
1FW 55B	2	B		12.	GA	EL	C	RP			1CN-1571.10.	H03			PRF	
1FW 56	2	C		12.	CK	SA	-	CV	AA1	CZ	1CN-1571.10.	H02			O/P	107
1IACV5340	2	AC		1.0	CK	SA	-	CV	Z01	RR	1CN-1499.1A.10.1				PRF	103
1IACV5340	2	AC		1.0	CK	SA	-	LT			1CN-1499.1A.10.1				PRF	103
1IACV5350	2	AC		1.0	CK	SA	-	CV	Z01	RR	1CN-1499.1A.10.1				PRF	103
1IACV5350	2	AC		1.0	CK	SA	-	LT			1CN-1499.1A.10.1				PRF	103
1IACV5360	2	AC		1.0	CK	SA	-	CV	Z01	RR	1CN-1499.1A.10.1				PRF	103
1IACV5360	2	AC		1.0	CK	SA	-	LT			1CN-1499.1A.10.1				PRF	103
1IACV5370	2	AC		1.0	CK	SA	-	CV	Z01	RR	1CN-1499.1A.10.1				PRF	103
1IACV5370	2	AC		1.0	CK	SA	-	LT			1CN-1499.1A.10.1				PRF	103
1IACV5380	2	AC		1.0	CK	SA	-	CV	Z01	RR	1CN-1499.1A.10.1				PRF	103
1IACV5380	2	AC		1.0	CK	SA	-	LT			1CN-1499.1A.10.1				PRF	103

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11ACV5390	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499.IA.10.1				PRF	03
11ACV5390	2	AC		1.0	CK	SA	-	LT			CN-1499.IA.10.1				PRF	03
11ASV5080	2	A		0.5	GL	S	0	Q			CN-1499.IA.10.1			S	PRF	03
11ASV5080	2	A		0.5	GL	S	0	FS			CN-1499.IA.10.1			S	PRF	03
11ASV5080	2	A		0.5	GL	S	0	LT			CN-1499.IA.10.1			S	PRF	03
11ASV5080	2	A		0.5	GL	S	0	MT	Y01	RR	CN-1499.IA.10.1		2	S	PRF	08
11ASV5080	2	A		0.5	GL	S	0	RP	Y01	RR	CN-1499.IA.10.1			S	PRF	03
11ASV5160	2	A		0.5	GL	S	0	Q			CN-1499.IA.10.1			S	PRF	03
11ASV5160	2	A		0.5	GL	S	0	FS			CN-1499.IA.10.1			S	PRF	03
11ASV5160	2	A		0.5	GL	S	0	LT			CN-1499.IA.10.1			S	PRF	03
11ASV5160	2	A		0.5	GL	S	0	MT	Y01	RR	CN-1499.IA.10.1		2	S	PRF	08
11ASV5160	2	A		0.5	GL	S	0	RP	Y01	RR	CN-1499.IA.10.1			S	PRF	03
1KC 1A	3	B		20.	BF	EL	0	Q			CN-1573.10.	C06		S	PRF	
1KC 1A	3	B		20.	BF	EL	0	MT			CN-1573.10.	C06	60	S	PRF	
1KC 1A	3	B		20.	BF	EL	0	RP			CN-1573.10.	C06		S	PRF	
1KC 2B	3	B		20.	BF	EL	0	Q			CN-1573.10.	C09		S	PRF	
1KC 2B	3	B		20.	BF	EL	0	MT			CN-1573.10.	C09	60	S	PRF	
1KC 2B	3	B		20.	BF	EL	0	RP			CN-1573.10.	C09		S	PRF	
1KC 3A	3	B		10.	GA	EL	0	Q			CN-1573.10.	C06		P	PRF	
1KC 3A	3	B		10.	GA	EL	0	MT			CN-1573.10.	C06	10	P	PRF	
1KC 3A	3	B		10.	GA	EL	0	RP			CN-1573.10.	C06		P	PRF	
1KC 5	3	C		16.	CK	SA	-	CV			115-7310.	E04			PRF	01
1KC 8	3	C		16.	CK	SA	-	CV			CN-1573.10.	E04			PRF	01
1KC 11	3	C		16.	CK	SA	-	CV			CN-1573.10.	E10			PRF	01

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1KC 14	3	C		16.	CK	SA	-	CV			CN-1573.10.	E11			PRF	01
1KC 18B	3	B		10.	GA	EL	0	Q			CN-1573.10.	C09		P	PRF	01
1KC 18B	3	B		10.	GA	EL	0	MT			CN-1573.10.	C09	10	P	PRF	01
1KC 18B	3	B		10.	GA	EL	0	RP			CN-1573.10.	C09		P	PRF	01
1KC 47	2	AC	X	.75	IRL/CK	SA	-	LT			CN-1573.15.	H03			PRF	
1KC 50A	3	B		20.	BF	EL	0	Q			CN-1573.10.	K07		S	PRF	
1KC 50A	3	B		20.	BF	EL	0	MT			CN-1573.10.	K07	60	S	PRF	
1KC 50A	3	B		20.	BF	EL	0	RP			CN-1573.10.	K07		S	PRF	
1KC 53B	3	B		20.	BF	EL	0	Q			CN-1573.21.	K08		S	PRF	
1KC 53B	3	B		20.	BF	EL	0	MT			CN-1573.21.	K08	60	S	PRF	
1KC 53B	3	B		20.	BF	EL	0	RP			CN-1573.21.	K08		S	PRF	
1KC 56A	3	B		16.	BF	EL	C	Q			CN-1573.11.	E05		S	PRF	
1KC 56A	3	B		16.	BF	EL	C	MT			CN-1573.11.	E05	60	S	PRF	
1KC 56A	3	B		16.	BF	EL	C	RP			CN-1573.11.	E05		S	PRF	
1KC 57A	3	B		12.	GL	AD	0	Q			CN-1573.11.	D01		S	PRF	
1KC 57A	3	B		12.	GL	AD	0	FS			CN-1573.11.	D01		S	PRF	
1KC 57A	3	B		12.	GL	AD	0	MT			CN-1573.11.	D01	60	S	PRF	11
1KC 57A	3	B		12.	GL	AD	0	RP			CN-1573.11.	D01		S	PRF	
1KC 81B	3	B		16.	BF	EL	C	Q			CN-1573.11.	E11		S	PRF	
1KC 81B	3	B		16.	BF	EL	C	MT			CN-1573.11.	E11	60	S	PRF	
1KC 81B	3	B		16.	BF	EL	C	RP			CN-1573.11.	E11		S	PRF	
1KC 82B	3	B		12.	GL	AD	0	Q			CN-1573.11.	D14		S	PRF	

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1KC 82B	3	B		12.	GL	AD	0	FS			CN-1573.11.	D14		S	PRF	
1KC 82B	3	B		12.	GL	AF	0	MT			CN-1573.11.	D14	60		PRF	11
1KC 82B	3	B		12.	GL	AD	0	RP			CN-1573.11.	D14		S	PRF	
1KC228B	3	B		8.0	GA	EL	0	Q			CN-1573.10.	L08		P	PRF	
1KC228B	3	B		8.0	GA	EL	0	MT			CN-1573.10.	L08	10	P	PRF	
1KC228B	3	B		8.0	GA	EL	0	RP			CN-1573.10.	L08		P	PRF	
1KC230A	3	B		8.0	GA	EL	0	Q			CN-1573.10.	L07		P	PRF	
1KC230A	3	B		8.0	GA	EL	0	MT			CN-1573.10.	L07	10	P	PRF	
1KC230A	3	B		8.0	GA	EL	0	RP			CN-1573.10.	L07		P	PRF	
1KC305B	2	B		4.0	GA	EL	0	Q			CN-1573.13.	D13		T	PRF	01
1KC305B	2	B		4.0	GA	EL	0	MT			CN-1573.13.	D13	20	T	PRF	01
1KC305B	2	B		4.0	GA	EL	0	RP			CN-1573.13.	D13		T	PRF	01
1KC315B	2	B		4.0	GA	EL	C	Q			CN-1573.13.	L12		T	PRF	
1KC315B	2	B		4.0	GA	EL	C	MT			CN-1573.13.	L12	20	T	PRF	
1KC315B	2	B		4.0	GA	EL	C	RP			CN-1573.13.	L12		T	PRF	
1KC320A	2	B		4.0	GA	EL	0	Q	C01	CS	CN-1573.13.	B10		T	PRF	
1KC320A	2	B		4.0	GA	EL	0	MT	C01	CS	CN-1573.13.	B10	20	T	PRF	
1KC320A	2	B		4.0	GA	EL	0	RP			CN-1573.13.	B10		T	PRF	
1KC332B	2	B		4.0	GA	EL	0	Q	C01	CS	CN-1573.13.	E02		T	PRF	
1KC332B	2	B		4.0	GA	EL	0	MT	C01	CS	CN-1573.13.	E02	20	T	PRF	
1KC332B	2	B		4.0	GA	EL	0	RP			CN-1573.13.	E02		T	PRF	
1KC333A	2	B		4.0	GA	EL	0	Q	C01	CS	CN-1573.13.	G02		T	PRF	
1KC333A	2	B		4.0	GA	EL	0	MT	C01	CS	CN-1573.13.	G02	20	T	PRF	
1KC333A	2	B		4.0	GA	EL	0	RP			CN-1573.13.	G02		T	PRF	
1KC333B	2	B		8.0	GA	EL	0	Q	C02	CS	CN-1573.13.	D12		P	PRF	

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1KC338B	2	B		8.0	GA	EL	0	MT	CO2	CS	CN-1573.13.	D12	40	P	PRF	
1KC338B	2	B		8.0	GA	EL	0	RP			CN-1573.13.	D12		P	PRF	
1KC340	2	AC		3.0	CK	SA	-	CV	CO3	RF	CN-1573.13.	E12			PRF	11
1KC340	2	AC		8.0	CK	SA	-	LT			CN-1573.13.	E12			PRF	11
1KC424B	2	B		8.0	GA	EL	0	Q	CO2	CS	CN-1573.13.	L05		P	PRF	
1KC424B	2	B		8.0	GA	EL	0	MT	CO2	CS	CN-1573.13.	L05	40	P	PRF	
1KC424B	2	B		8.0	GA	EL	0	RP			CN-1573.13.	L05		P	PRF	
1KC425A	2	B		8.0	GA	EL	0	Q	CO2	CS	CN-1573.13.	L06		P	PRF	
1KC425A	2	B		8.0	GA	EL	0	MT	CO2	CS	CN-1573.13.	L06	40	P	PRF	
1KC425A	2	B		8.0	GA	EL	0	RP			CN-1573.13.	L06		P	PRF	
1KC429B	2	A		2.0	GL	EL	0	Q			CN-1573.15.	H02		T	PRF	
1KC429B	2	A		2.0	GL	EL	0	LT			CN-1573.15.	H02		T	PRF	
1KC429B	2	A		2.0	GL	EL	0	MT			CN-1573.15.	H02	10	T	PRF	
1KC429B	2	A		2.0	GL	EL	0	RP			CN-1573.15.	H02		T	PRF	
1KC430A	2	A		2.0	GL	EL	0	Q			CN-1573.13.	H02		T	PRF	
1KC430A	2	A		2.0	GL	EL	0	LT			CN-1573.13.	J03		T	PRF	
1KC430A	2	A		2.0	GL	EL	0	MT			CN-1573.13.	J03	10	T	PRF	
1KC430A	2	A		2.0	GL	EL	0	RP			CN-1573.13.	H02		T	PRF	
1KD 6	3	C		8.0	CK	SA	-	CV	X01	RR	CN-1609.10.	J10			O/M	01
1KD 21	3	C		8.0	CK	SA	-	CV	X01	RR	CN-1609.10.	E10			O/M	01
1KF101B	2	B		4.0	GA	EL	C	Q			CN-1570.10.	H13		S	PRF	
1KF101B	2	B		4.0	GA	EL	C	MT			CN-1570.10.	H13	10	S	PRF	
1KF101B	2	B		4.0	GA	EL	C	RP			CN-1570.10.	H13		S	PRF	

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1KF103A	2	B		4.0	GA	EL	C	Q			CN-1570.10.	H12		S	PRF	
1KF103A	2	B		4.0	GA	EL	C	MT			CN-1570.10.	H12	10	S	PRF	
1KF103A	2	B		4.0	GA	EL	C	RP			CN-1570.10.	H12		S	PRF	
1MIMV6470	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10			PRF	101
1MIMV6471	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10			PRF	101
1MIMV6480	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10			PRF	101
1MIMV6481	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10			PRF	101
1MIMV6490	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10			PRF	101
1MIMV6491	2	A	X	0.5	ND	M	C	LT			CN-1499.03.09.02	K10			PRF	101
1MISV5230	2	A		0.5	GL	S	O	Q			CN-1499.MI.19.			T	PRF	101
1MISV5230	2	A		0.5	GL	S	O	FS			CN-1499.MI.19.			T	PRF	101
1MISV5230	2	A		0.5	GL	S	O	LT			CN-1499.MI.19.			T	PRF	101
1MISV5230	2	A		0.5	GL	S	O	MT			CN-1499.MI.19.		2	T	PRF	108
1MISV5230	2	A		0.5	GL	S	O	RP			CN-1499.MI.19.			T	PRF	101
1MISV5231	2	A		0.5	GL	S	O	Q			CN-1499.MI.19.			T	PRF	101
1MISV5231	2	A		0.5	GL	S	O	FS			CN-1499.MI.19.			T	PRF	101
1MISV5231	2	A		0.5	GL	S	O	LT			CN-1499.MI.19.			T	PRF	101
1MISV5231	2	A		0.5	GL	S	O	MT			CN-1499.MI.19.		2	T	PRF	108
1MISV5231	2	A		0.5	GL	S	O	RP			CN-1499.MI.19.			T	PRF	101

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1MISV5232	2	A		0.5	GL	S	0	Q			CN-1499.MI.19.			T	PRF	01
1MISV5232	2	A		0.5	GL	S	0	FS			CN-1499.MI.19.			T	PRF	01
1MISV5232	2	A		0.5	GL	S	0	LT			CN-1499.MI.19.			T	PRF	01
1MISV5232	2	A		0.5	GL	S	0	MT			CN-1499.MI.19.		2	T	PRF	08
1MISV5232	2	A		0.5	GL	S	0	RP			CN-1499.MI.19.			T	PRF	01
1MISV5233	2	A		0.5	GL	S	0	Q			CN-1499.MI.19.			T	PRF	01
1MISV5233	2	A		0.5	GL	S	0	FS			CN-1499.MI.19.			T	PRF	01
1MISV5233	2	A		0.5	GL	S	0	LT			CN-1499.MI.19.			T	PRF	01
1MISV5233	2	A		0.5	GL	S	0	MT			CN-1499.MI.19.		2	T	PRF	08
1MISV5233	2	A		0.5	GL	S	0	RP			CN-1499.MI.19.			T	PRF	01
1NB260B	2	A		1.0	GL	EL	C	Q			CN-1556.20.	G04		T	PRF	01
1NB260B	2	A		1.0	GL	EL	C	LT			CN-1556.20.	G04		T	PRF	
1NB260B	2	A		1.0	GL	EL	C	MT			CN-1556.20.	G04	10	T	PRF	
1NB260B	2	A		1.0	GL	EL	C	RP			CN-1556.20.	G04		T	PRF	
1NB262	2	AC		.75	CK	SA	-	CV	D01	RF	CN-1556.20.	G06			PRF	01
1NB262	2	AC		.75	CK	SA	-	LT			CN-1556.20.	G06			PRF	
INC 1	1	C		6.0	RL	SA	-	SRV			CN-1553.11.	K03			MNT	
INC 2	1	C		6.0	RL	SA	-	SRV			CN-1553.11.	K04			MNT	
INC 3	1	C		6.0	RL	SA	-	SRV			CN-1553.11.	K06			MNT	
INC 31B	1	B		4.0	GA	EL	0	Q			CN-1553.11.	F04			PRF	08
INC 31B	1	B		4.0	GA	EL	0	MT			CN-1553.11.	F04	10		PRF	07
INC 31B	1	B		4.0	GA	EL	0	RP			CN-1553.11.	F04			PRF	08
INC 32B	1	B		4.0	GL	P	C	Q	E02	CS	CN-1553.11.	G04			PRF	07
INC 32B	1	B		4.0	GL	P	C	FS	E02	CS	CN-1553.11.	G04			PRF	07
INC 32B	1	B		4.0	GL	P	C	MT	E02	CS	CN-1553.11.	G04	3		PRF	07

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1NC 32B	1	B		4.0	GL	P	C	RP			CN-1553.11.	G04			PRF	
1NC 33A	1	B		4.0	GA	EL	O	Q			CN-1553.11.	F03			PRF	08
1NC 33A	1	B		4.0	GA	EL	O	MT			CN-1553.11.	F03	10		PRF	08
1NC 33A	1	B		4.0	GA	EL	O	RP			CN-1553.11.	F03			PRF	08
1NC 34A	1	B		4.0	GL	P	C	Q	E02	CS	CN-1553.11.	G03			PRF	07
1NC 34A	1	B		4.0	GL	P	C	FS	E02	CS	CN-1553.11.	G03			PRF	07
1NC 34A	1	B		4.0	GL	P	C	MT	E02	CS	CN-1553.11.	G03	3		PRF	07
1NC 34A	1	B		4.0	GL	P	C	RP			CN-1553.11.	G03			PRF	
1NC 35B	1	B		4.0	GA	EL	O	Q			CN-1553.11.	F02			PRF	08
1NC 35B	1	B		4.0	GA	EL	O	MT			CN-1553.11.	F02	10		PRF	08
1NC 35B	1	B		4.0	GA	EL	O	RP			CN-1553.11.	F02			PRF	08
1NC 36B	1	B		4.0	GL	P	C	Q	E02	CS	CN-1553.11.	G02			PRF	07
1NC 36B	1	B		4.0	GL	P	C	FS	E02	CS	CN-1553.11.	G02			PRF	07
1NC 36B	1	B		4.0	GL	P	C	MT	E02	CS	CN-1553.11.	G02	3		PRF	07
1NC 36B	1	B		4.0	GL	P	C	RP			CN-1553.11.	G02			PRF	
1NC 53B	2	A		1.0	GL	EL	C	Q			CN-1553.11.	K11		T	PRF	
1NC 53B	2	A		1.0	GL	EL	C	LT			CN-1553.11.	K11		T	PRF	
1NC 53B	2	A		1.0	GL	EL	C	MT			CN-1553.11.	K11	10	T	PRF	01
1NC 53B	2	A		1.0	GL	EL	C	RP			CN-1553.11.	K11		T	PRF	
1NC 54A	2	A		1.0	GL	EL	C	Q			CN-1553.11.	K09		T	PRF	
1NC 54A	2	A		1.0	GL	EL	C	LT			CN-1553.11.	K09		T	PRF	
1NC 54A	2	A		1.0	GL	EL	C	MT			CN-1553.11.	K09	10	T	PRF	01
1NC 54A	2	A		1.0	GL	EL	C	RP			CN-1553.11.	K09		T	PRF	01
1NC 56B	2	B		3.0	GA	EL	C	Q			CN-1553.11.	I13		T	PRF	
1NC 56B	2	B		3.0	GA	EL	C	MT			CN-1553.11.	I13	10	T	PRF	
1NC 56B	2	B		3.0	GA	EL	C	RP			CN-1553.11.	I13		T	PRF	

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INC 57	2	AC		3.0	CK	SA	-	CV	E01	RF	CN-1553.11.	I12			PRF	01
INC 57	2	AC		3.0	CK	SA	-	LT			CN-1553.11.	I12			PRF	
INC141	2	A	X	2.0	GA	M	LC	LT			CN-1553.13.	J08			PRF	
INC142	2	A	X	2.0	GA	M	LC	LT			CN-1553.13.	K08			PRF	
INC195B	2	A		2.0	GA	EL	C	Q			CN-1553.13.	E07		T	PRF	
INC195B	2	A		2.0	GA	EL	C	LT			CN-1553.13.	E07		T	PRF	
INC195B	2	A		2.0	GA	EL	C	MT			CN-1553.13.	E07	10	T	PRF	
INC195B	2	A		2.0	GA	EL	C	RP			CN-1553.13.	E07		T	PRF	
INC196A	2	A		2.0	GA	EL	C	Q			CN-1553.13.	D08		T	PRF	
INC196A	2	A		2.0	GA	EL	C	LT			CN-1553.13.	D08		T	PRF	
INC196A	2	A		2.0	GA	EL	C	MT			CN-1553.13.	D08	10	T	PRF	
INC196A	2	A		2.0	GA	EL	C	RP			CN-1553.13.	D08		T	PRF	
INC250A	1	B		1.0	GL	EL	C	Q	E03	CS	CN-1553.11.	L07			PRF	08
INC250A	1	B		1.0	GL	EL	C	MT	E03	CS	CN-1553.11.	L07	10		PRF	08
INC250A	1	B		1.0	GL	EL	C	RP			CN-1553.11.	L07			PRF	08
INC251B	1	B		1.0	GL	EL	C	Q	E03	CS	CN-1553.11.	L06			PRF	08
INC251B	1	B		1.0	GL	EL	C	MT	E03	CS	CN-1553.11.	L06	10		PRF	08
INC251B	1	B		1.0	GL	EL	C	RP			CN-1553.11.	L06			PRF	08
INC252B	1	B		1.0	GL	EL	C	Q	E03	CS	CN-1553.11.	K07			PRF	08
INC252B	1	B		1.0	GL	EL	C	MT	E03	CS	CN-1553.11.	K07	10		PRF	08
INC252B	1	B		1.0	GL	EL	C	RP			CN-1553.11.	K07			PRF	01
INC253A	1	B		1.0	GL	EL	C	Q	E03	CS	CN-1553.11.	K06			PRF	08

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INC253A	1	B		1.0	GL	EL	C	MT	E03	CS	CN-1553.11.	K06	10		PRF	08
INC253A	1	B		1.0	GL	EL	C	RP			CN-1553.11.	K06			PRF	01
IND 1B	1	A		12.	GA	EL	C	Q	F01	CS	CN-1561.10.	L13			PRF	05
IND 1B	1	A		12.	GA	EL	C	LT		BV	CN-1561.10.	L13			PRF	05
IND 1B	1	A		12.	GA	EL	C	MT	F01	CS	CN-1561.10.	L13	60		PRF	05
IND 1B	1	A		12.	GA	EL	C	RP			CN-1561.10.	L13			PRF	05
IND 2A	1	A		12.	GA	EL	C	Q	F01	CS	CN-1561.10.	J13			PRF	
IND 2A	1	A		12.	GA	EL	C	LT		BV	CN-1561.10.	J13			PRF	01
IND 2A	1	A		12.	GA	EL	C	MT	F01	CS	CN-1561.10.	J13	60		PRF	05
IND 2A	1	A		12.	GA	EL	C	RP			CN-1561.10.	J13			PRF	05
IND 10	2	C		8.0	CK	SA	-	CV	F03	CZ	CN-1561.10.	G10			P/O	07
IND 25A	2	B		2.0	GL	EL	C	Q			CN-1561.10.	E13			PRF	
IND 25A	2	B		2.0	GL	EL	C	MT			CN-1561.10.	E13	15		PRF	03
IND 25A	2	B		2.0	GL	EL	C	RP			CN-1561.10.	E13			PRF	
IND 26	2	B		8.0	BF	AD	O	Q			CN-1561.10.	G04		S	PRF	
IND 26	2	B		8.0	BF	AD	O	FS			CN-1561.10.	G04		S	PRF	
IND 26	2	B		8.0	BF	AD	O	MT			CN-1561.10.	G04	90	S	PRF	
IND 26	2	B		8.0	BF	AD	O	RP			CN-1561.10.	G04		S	PRF	
IND 27	2	B		8.0	BF	AD	C	Q			CN-1561.10.	J06		S	PRF	
IND 27	2	B		8.0	BF	AD	C	FS			CN-1561.10.	J06		S	PRF	
IND 27	2	B		8.0	BF	AD	C	MT			CN-1561.10.	J06	90	S	PRF	
IND 27	2	B		8.0	BF	AD	C	RP			CN-1561.10.	J06		S	PRF	
IND 28A	2	B		8.0	GA	EL	C	Q			CN-1561.10.	H04			PRF	
IND 28A	2	B		8.0	GA	EL	C	MT			CN-1561.10.	H04	40		PRF	
IND 28A	2	B		8.0	GA	EL	C	RP			CN-1561.10.	H04			PRF	

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1ND 32A	2	B		8.0	GA	EL	O	Q	F04	CS	CN-1561.10.	F03			PRF	07
1ND 32A	2	B		8.0	GA	EL	O	MT	F04	CS	CN-1561.10.	F03	10		PRF	07
1ND 32A	2	B		8.0	GA	EL	O	RP			CN-1561.10.	F03			PRF	
1ND 36B	1	A		12.	GA	EL	C	Q	F02	CS	CN-1561.11.	L13			PRF	05
1ND 36B	1	A		12.	GA	EL	C	LT		BV	CN-1561.11.	L13			PRF	05
1ND 36B	1	A		12.	GA	EL	C	MT	F02	CS	CN-1561.11.	L13	60		PRF	05
1ND 36B	1	A		12.	GA	EL	C	RP			CN-1561.11.	L13			PRF	05
1ND 37A	1	A		12.	GA	EL	C	Q	F02	CS	CN-1561.11.	J13			PRF	05
1ND 37A	1	A		12.	GA	EL	C	LT		BV	CN-1561.11.	J13			PRF	05
1ND 37A	1	A		12.	GA	EL	C	MT	F02	CS	CN-1561.11.	J13	60		PRF	05
1ND 37A	1	A		12.	GA	EL	C	RP			CN-1561.11.	J13			PRF	05
1ND 44	2	C		8.0	CK	SA	-	CV	F03	CZ	CN-1561.11.	G10			PRF	07
1ND 59B	2	B		2.0	GL	EL	C	Q			CN-1561.11.	E13			PRF	
1ND 59B	2	B		2.0	GL	EL	C	MT			CN-1561.11.	E13	15		PRF	03
1ND 59B	2	B		2.0	GL	EL	C	RP			CN-1561.11.	E13			PRF	
1ND 60	2	B		8.0	BF	AD	O	Q			CN-1561.11.	G04		S	PRF	
1ND 60	2	B		8.0	BF	AD	O	FS			CN-1561.11.	G04		S	PRF	
1ND 60	2	B		8.0	BF	AD	O	MT			CN-1561.11.	G04	90	S	PRF	
1ND 60	2	B		8.0	BF	AD	O	RP			CN-1561.11.	G04		S	PRF	
1ND 61	2	B		8.0	BF	AD	C	Q			CN-1561.11.	J06		S	PRF	
1ND 61	2	B		8.0	BF	AD	C	FS			CN-1561.11.	J06		S	PRF	
1ND 61	2	B		8.0	BF	AD	C	MT			CN-1561.11.	J06	90	S	PRF	
1ND 61	2	B		8.0	BF	AD	C	RP			CN-1561.11.	J06		S	PRF	
1ND 65B	2	B		8.0	GA	EL	O	Q	F04	CS	CN-1561.11.	E03			PRF	07
1ND 65B	2	B		8.0	GA	EL	O	MT	F04	CS	CN-1561.11.	E03	10		PRF	07
1ND 65B	2	B		8.0	GA	EL	O	RP			CN-1561.11.	E03			PRF	

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1NF226A	2	A		4.0	GA	AD	0	Q			CN-1558.20.	H14		T	PRF	
1NF226A	2	A		4.0	GA	AD	0	FS			CN-1558.20.	H14		T	PRF	
1NF226A	2	A		4.0	GA	AD	0	LT			CN-1558.20.	H14		T	PRF	
1NF226A	2	A		4.0	GA	AD	0	MT			CN-1558.20.	H14	10	T	PRF	
1NF226A	2	A		4.0	GA	AD	0	RP			CN-1558.20.	H14		T	PRF	
1NF229	2	AC		4.0	CK	SA	-	CV	G01	RF	CN-1558.20.	F14			PRF	01
1NF229	2	AC		4.0	CK	SA	-	LT			CN-1558.20.	F14			PRF	
1NF233B	2	A		4.0	GA	EL	0	Q			CN-1558.20.	L10		T	PRF	
1NF233B	2	A		4.0	GA	EL	0	LT			CN-1558.20.	L10		T	PRF	
1NF233B	2	A		4.0	GA	EL	0	MT			CN-1558.20.	L10	10	T	PRF	
1NF233B	2	A		4.0	GA	EL	0	RP			CN-1558.20.	L10		T	PRF	
1NF234A	2	A		4.0	GA	AD	0	Q			CN-1558.20.	L12		T	PRF	08
1NF234A	2	A		4.0	GA	AD	0	FS			CN-1558.20.	L12		T	PRF	08
1NF234A	2	A		4.0	GA	AD	0	LT			CN-1558.20.	L12		T	PRF	08
1NF234A	2	A		4.0	GA	AD	0	MT			CN-1558.20.	L12	10	T	PRF	08
1NF234A	2	A		4.0	GA	AD	0	RP			CN-1558.20.	L12		T	PRF	08
1NF235	2	AC	X	0.5	IRL/CK	SA	-	LT			CN-1558.20.	K10			PRF	
1NI 9A	2	B		4.0	GA	EL	C	Q	H20	CS	CN-1562.10.	E04	10	S	PRF	07
1NI 9A	2	B		4.0	GA	EL	C	MT	H20	CS	CN-1562.10.	E04		S	PRF	07
1NI 9A	2	B		4.0	GA	EL	C	RP			CN-1562.10.	E04		S	PRF	
1NI 10B	2	B		4.0	GA	EL	C	Q	H20	CS	CN-1562.10.	E03	10	S	PRF	07
1NI 10B	2	B		4.0	GA	EL	C	MT	H20	CS	CN-1562.10.	E03		S	PRF	07
1NI 10B	2	B		4.0	GA	EL	C	RP			CN-1562.10.	E03		S	PRF	
1NI 12	2	C		3.0	CK	SA	-	CV	H01	RF	CN-1562.10.	H03			PRF	01

DUKE POWER COMPANY
CATHERINE NUCLEAR STATION
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VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	REL RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
INI 15	1	C		1.5	CK	SA	-	CV	HR02	RF	CN-1562.10.	L06			PRF	101
INI 17	1	C		1.5	CK	SA	-	CV	HR02	RF	CN-1562.10.	L04			PRF	101
INI 19	1	C		1.5	CK	SA	-	CV	HR02	RF	CN-1562.10.	L03			PRF	101
INI 21	1	C		1.5	CK	SA	-	CV	HR02	RF	CN-1562.10.	L02			PRF	101
INI 47A	4	AC		1.0	GL	EL	0	0			CN-1562.11.	L06			PRF	
INI 47B	4	AC		1.0	GL	EL	0	0			CN-1562.11.	L06	10		PRF	
INI 47C	4	AC		1.0	GL	EL	0	0			CN-1562.11.	L06			PRF	
INI 47D	4	AC		1.0	GL	EL	0	0			CN-1562.11.	L06			PRF	
INI 48	4	AC		1.0	CK	SA	-	CV	HR04	RF	CN-1562.11.	L03			PRF	101
INI 49	4	AC		1.0	CK	SA	-	LT			CN-1562.11.	L03			PRF	
INI 54A	1	B	X	10.	GL	EL	0	RP			CN-1562.11.	D02		S	PRF	
INI 55	1	AC		10.	CK	SA	-	CV	HR05	RF	CN-1562.11.	D02			Q/M	107
INI 56	1	AC		10.	CK	SA	-	LT		BV	CN-1562.11.	D02			PRF	
INI 60	1	AC		10.	CK	SA	-	CV	HR03	RF	CN-1562.11.	D02			Q/M	106
INI 61	1	AC		10.	CK	SA	-	LT		BV	CN-1562.11.	D02			PRF	
INI 62B	1	B	X	10.	GL	EL	0	RP			CN-1562.11.	D05		S	PRF	

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DAVE ROSS COMPANY
CATERPILLAR VALVE STATION
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VALVE NUMBER	AGE CLASS	CATE- GORY	PISS- IRE	VALVE SIZE	VALVE TYPE	ACTU TYPE	WORK POSN	TEST REQD	TEST ALT	FLOW DIAGRAM	COORD- INATE	VALVE TIME	EDF	ROSS GROUP	SEN NGR
10140	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10141	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10142	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10143	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10144	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10145	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10146	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10147	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10148	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10149	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10150	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10151	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10152	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10153	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10154	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10155	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10156	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10157	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10158	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10159	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10160	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10161	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10162	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10163	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10164	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10165	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10166	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10167	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10168	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10169	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10170	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10171	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10172	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10173	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10174	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10175	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10176	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10177	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10178	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10179	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10180	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10181	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10182	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10183	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10184	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10185	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10186	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10187	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10188	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10189	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10190	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10191	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10192	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10193	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10194	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10195	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10196	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10197	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10198	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101
10199	1	1	0	4.0	CK	SA	1	CV	1	10N-156.12.	1	100	1	1	101

DUKE POWER COMPANY
CATMAH VALLEY STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 11

VALVE NUMBER	ASME CLASS	DATE- GCRV	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	WORN POSN	TEST REQD	TEST RMT	TEST ALIN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
INI157	1	AC		6.0	CK	SA	-	CV	PH10	RF	CN-1562.12.	E01			PRF	101
INI157	1	AC		6.0	CK	SA	-	LT		BV	CN-1562.12.	E01			PRF	
INI159	1	AC		2.0	CK	SA	-	CV	PH10	RF	CN-1562.12.	G03			PRF	101
INI159	1	AC		2.0	CK	SA	-	LT		BV	CN-1562.12.	G03			PRF	
INI160	1	AC		6.0	CK	SA	-	CV	PH10	RF	CN-1562.12.	C01			PRF	101
INI160	1	AC		6.0	CK	SA	-	LT		BV	CN-1562.12.	C01			PRF	
INI162A	2	B		4.0	GA	EL	0	0	PH12	CS	CN-1562.13.	J06	10		PRF	101
INI162A	2	B		4.0	GA	EL	0	RT	PH12	CS	CN-1562.13.	J06			PRF	
INI162A	2	B		4.0	GA	EL	0	RP			CN-1562.13.	J06			PRF	101
INI165	1	AC		2.0	CK	SA	-	CV	PH13	RF	CN-1562.13.	G03			PRF	101
INI165	1	AC		2.0	CK	SA	-	LT		BV	CN-1562.13.	G03			PRF	
INI167	1	AC		2.0	CK	SA	-	CV	PH13	RF	CN-1562.13.	G06			PRF	101
INI167	1	AC		2.0	CK	SA	-	LT		BV	CN-1562.13.	G06			PRF	
INI169	1	AC		2.0	CK	SA	-	CV	PH13	RF	CN-1562.13.	G09			PRF	101
INI169	1	AC		2.0	CK	SA	-	LT		BV	CN-1562.13.	G09			PRF	
INI171	1	AC		2.0	CK	SA	-	CV	PH13	RF	CN-1562.13.	G12			PRF	101
INI171	1	AC		2.0	CK	SA	-	LT		BV	CN-1562.13.	G12			PRF	
INI173A	3	101010		6.0	PS	PP	000	0	PH18	CS	CN-1562.13.	E10	60		PRF	107
INI173A	3	101010		6.0	PS	PP	000	RT	PH18		CN-1562.13.	E10			PRF	
INI173A	3	101010		6.0	PS	PP	000	RE			CN-1562.13.	E10			PRF	107

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REPRODUCED FROM THE NATIONAL ARCHIVES AT COLLEGE PARK, MARYLAND

[illegible]

DUKE POWER COMPANY
CATARAUGUS NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER:

VALVE NUMBER	ACME CLASS	DATE- CURY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM FOGN	TEST REQD	REL RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	REF GROUP	REV NO.
1NW201A	1	1985	1	3	GL	EL	0	0	0	0	CN-1572.14.	106	10	1	PRF	1
1NW201A	1	1985	1	3	GL	EL	0	MT	0	0	CN-1572.14.	106	10	1	PRF	1
1NW201A	1	1985	1	3	GL	EL	0	RP	0	0	CN-1572.14.	106	10	1	PRF	1
1NW207A	2	1985	1	3	GL	EL	0	0	0	0	CN-1572.14.	K08	10	1	PRF	1
1NW207A	2	1985	1	3	GL	EL	0	MT	0	0	CN-1572.14.	K08	10	1	PRF	1
1NW207A	2	1985	1	3	GL	EL	0	RP	0	0	CN-1572.14.	K08	10	1	PRF	1
1NW210A	2	1985	1	3	GL	EL	0	0	0	0	CN-1572.14.	K09	10	1	PRF	1
1NW210A	2	1985	1	3	GL	EL	0	MT	0	0	CN-1572.14.	K09	10	1	PRF	1
1NW210A	2	1985	1	3	GL	EL	0	RP	0	0	CN-1572.14.	K09	10	1	PRF	1
1NW211B	2	1985	1	3	GL	EL	0	0	0	0	CN-1572.14.	109	10	1	PRF	1
1NW211B	2	1985	1	3	GL	EL	0	MT	0	0	CN-1572.14.	109	10	1	PRF	1
1NW211B	2	1985	1	3	GL	EL	0	RP	0	0	CN-1572.14.	109	10	1	PRF	1
1NW217B	2	1985	1	3	GL	EL	0	0	0	0	CN-1572.14.	109	10	1	PRF	1
1NW217B	2	1985	1	3	GL	EL	0	MT	0	0	CN-1572.14.	109	10	1	PRF	1
1NW217B	2	1985	1	3	GL	EL	0	RP	0	0	CN-1572.14.	109	10	1	PRF	1
1NW220B	2	1985	1	3	GL	EL	0	0	0	0	CN-1572.14.	K13	10	1	PRF	1
1NW220B	2	1985	1	3	GL	EL	0	MT	0	0	CN-1572.14.	K13	10	1	PRF	1
1NW220B	2	1985	1	3	GL	EL	0	RP	0	0	CN-1572.14.	K13	10	1	PRF	1
1NW221A	2	1985	1	3	GL	EL	0	0	0	0	CN-1572.14.	112	10	1	PRF	1
1NW221A	2	1985	1	3	GL	EL	0	MT	0	0	CN-1572.14.	112	10	1	PRF	1
1NW221A	2	1985	1	3	GL	EL	0	RP	0	0	CN-1572.14.	112	10	1	PRF	1
1NS 1B	2	1985	1	12	GL	EL	0	0	0	0	CN-1563.10.	C13	20	1	PRF	1
1NS 1B	2	1985	1	12	GL	EL	0	MT	0	0	CN-1563.10.	C13	20	1	PRF	1
1NS 1B	2	1985	1	12	GL	EL	0	RP	0	0	CN-1563.10.	C13	20	1	PRF	1
1NS 3B	2	1985	1	12	GL	EL	0	0	0	0	CN-1563.10.	E13	1	1	PRF	1

DUKE POWER COMPANY
CATANBA NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

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CURRENT REVISION NUMBER: 11

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.
INS 3B	2	B		12.	GA	EL	0	MT			CN-1563.10.	E13	15		PRF	11
INS 3B	2	B		12.	GA	EL	0	RP			CN-1563.10.	E13			PRF	
INS 4	2	C		12.	CK	SA	-	CV	1102	RR	CN-1563.10.	E13			P/M	101
INS 12B	2	B		8.0	GA	EL	C	Q			CN-1563.10.	C05		P	PRF	
INS 12B	2	B		8.0	GA	EL	C	MT			CN-1563.10.	C05	10	P	PRF	
INS 12B	2	B		8.0	GA	EL	C	RP			CN-1563.10.	C05		P	PRF	
INS 13	2	C		8.0	CK	SA	-	CV	1101	RF	CN-1563.10.	C03			MNT	101
INS 15B	2	B		8.0	GA	EL	C	Q			CN-1563.10.	E05		P	PRF	
INS 15B	2	B		8.0	GA	EL	C	MT			CN-1563.10.	E05	10	P	PRF	
INS 15B	2	B		8.0	GA	EL	C	RP			CN-1563.10.	E05		P	PRF	
INS 16	2	C		8.0	CK	SA	-	CV	1101	RF	CN-1563.10.	E03			MNT	101
INS 18A	2	B		12.	GA	EL	C	Q			CN-1563.10.	K13			PRF	
INS 18A	2	B		12.	GA	EL	C	MT			CN-1563.10.	K13	20		PRF	
INS 18A	2	B		12.	GA	EL	C	RP			CN-1563.10.	K13			PRF	
INS 20A	2	B		12.	GA	EL	0	Q			CN-1563.10.	I13			PRF	
INS 20A	2	B		12.	GA	EL	0	MT			CN-1563.10.	I13	15		PRF	
INS 20A	2	B		12.	GA	EL	0	RP			CN-1563.10.	I13			PRF	
INS 21	2	C		12.	CK	SA	-	CV	1102	RR	CN-1563.10.	I13			P/M	101
INS 29A	2	B		8.0	GA	EL	C	Q			CN-1563.10.	I05		P	PRF	
INS 29A	2	B		8.0	GA	EL	C	MT			CN-1563.10.	I05	10	P	PRF	
INS 29A	2	B		8.0	GA	EL	C	RP			CN-1563.10.	I05		P	PRF	

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CATAMBA NUCLEAR STATION
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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.
1NS 30	2	C		8.0	CK	SA	-	CV	I01	RF	CN-1563.10.	I02			MNT	01
1NS 32A	2	B		8.0	GA	EL	C	Q			CN-1563.10.	K05		P	PRF	
1NS 32A	2	B		8.0	GA	EL	C	MT			CN-1563.10.	K05	10	P	PRF	
1NS 32A	2	B		8.0	GA	EL	C	RP			CN-1563.10.	K05		P	PRF	
1NS 33	2	C		8.0	CK	SA	-	CV	I01	RF	CN-1563.10.	K03			MNT	01
1NS 36B	2	B		8.0	GA	EL	C	Q			CN-1563.10.	F05			PRF	
1NS 36B	2	B		8.0	GA	EL	C	MT			CN-1563.10.	F05	10		PRF	
1NS 36B	2	B		8.0	GA	EL	C	RP			CN-1563.10.	F05			PRF	
1NS 41	2	C		8.0	CK	SA	-	CV	I01	RF	CN-1563.10.	F03			MNT	01
1NS 43A	2	B		8.0	GA	EL	C	Q			CN-1563.10.	H05			PRF	
1NS 43A	2	B		8.0	GA	EL	C	MT			CN-1563.10.	H05	10		PRF	
1NS 43A	2	B		8.0	GA	EL	C	RP			CN-1563.10.	H05			PRF	
1NS 46	2	C		8.0	CK	SA	-	CV	I01	RF	CN-1563.10.	H03			MNT	01
1NS 98	2	C		8.0	CK	SA	-	CV	I02	RR	CN-1563.10.	J09			P/M	01
1NS 99	2	C		8.0	CK	SA	-	CV	I02	RR	CN-1563.10.	D09			P/M	01
1NV 10A	2	B		2.0	GA	AD	0	Q			CN-1554.10.	H08		T	PRF	
1NV 10A	2	B		2.0	GA	AD	0	FS			CN-1554.10.	H08		T	PRF	
1NV 10A	2	B		2.0	GA	AD	0	MT			CN-1554.10.	H08	10	T	PRF	
1NV 10A	2	B		2.0	GA	AD	0	RP			CN-1554.10.	H08		T	PRF	

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

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CURRENT REVISION NUMBER: 11

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.
INV 11A	2	B		2.0	GA	AD	C	Q			CN-1554.10.	I09		T	PRF	
INV 11A	2	B		2.0	GA	AD	C	FS			CN-1554.10.	I09		T	PRF	
INV 11A	2	B		2.0	GA	AD	C	MT			CN-1554.10.	I09	10	T	PRF	
INV 11A	2	B		2.0	GA	AD	C	RP			CN-1554.10.	I09		T	PRF	
INV 13A	2	B		2.0	GA	AD	C	Q			CN-1554.10.	G08		T	PRF	
INV 13A	2	B		2.0	GA	AD	C	FS			CN-1554.10.	G08		T	PRF	
INV 13A	2	B		2.0	GA	AD	C	MT			CN-1554.10.	G08	10	T	PRF	
INV 13A	2	B		2.0	GA	AD	C	RP			CN-1554.10.	G08		T	PRF	
INV 14	2	A	X	3.0	RL	SA	C	LT			CN-1554.10.	G10			PRF	
INV 15B	2	A		3.0	GL	EL	0	Q	J01	CS	CN-1554.10.	H10		T	PRF	01
INV 15B	2	A		3.0	GL	EL	0	LT			CN-1554.10.	H10		T	PRF	01
INV 15B	2	A		3.0	GL	EL	0	MT	J01	CS	CN-1554.10.	H10	10	T	PRF	01
INV 15B	2	A		3.0	GL	EL	0	RP			CN-1554.10.	H10		T	PRF	01
INV 89A	2	B		4.0	GA	EL	0	Q	J02	CS	CN-1554.10.	B10		T	PRF	
INV 89A	2	B		4.0	GA	EL	0	MT	J02	CS	CN-1554.10.	B10	10	T	PRF	
INV 89A	2	B		4.0	GA	EL	0	RP			CN-1554.10.	B10		T	PRF	
INV 90	2	AC	X	.75	RL/CK	SA	-	LT			CN-1554.10.	D10		T	PRF	01
INV 91B	2	B		4.0	GA	EL	0	Q	J02	CS	CN-1554.10.	B12		T	PRF	
INV 91B	2	B		4.0	GA	EL	0	MT	J02	CS	CN-1554.10.	B12	10	T	PRF	
INV 91B	2	B		4.0	GA	EL	0	RP			CN-1554.10.	B12		T	PRF	
INV188A	2	B		4.0	GA	EL	0	Q	J03	CS	CN-1554.11.	C05		S	PRF	
INV188A	2	B		4.0	GA	EL	0	MT	J03	CS	CN-1554.11.	C05	15	S	PRF	02
INV188A	2	B		4.0	GA	EL	0	RP			CN-1554.11.	C05		S	PRF	

DUKE POWER COMPANY
CATAMBA NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

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CURRENT REVISION NUMBER: 11

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.
1NV189B	2	B		4.0	GA	EL	0	Q	J03	CS	CN-1554.11.	C04	15	S	PRF	
1NV189B	2	B		4.0	GA	EL	0	MT	J03	CS	CN-1554.11.	C04	15	S	PRF	02
1NV189B	2	B		4.0	GA	EL	0	RP			CN-1554.11.	C04		S	PRF	
1NV202B	2	B		2.0	GL	EL	0	Q	J07	CS	CN-1554.16.	D01	10		PRF	
1NV202B	2	B		2.0	GL	EL	0	MT	J07	CS	CN-1554.16.	D01	10		PRF	
1NV202B	2	B		2.0	GL	EL	0	RP			CN-1554.16.	D01			PRF	
1NV203A	2	B		2.0	GL	EL	0	Q	J07	CS	CN-1554.16.	D01	10		PRF	
1NV203A	2	B		2.0	GL	EL	0	MT	J07	CS	CN-1554.16.	D01	10		PRF	
1NV203A	2	B		2.0	GL	EL	0	RP			CN-1554.16.	D01			PRF	
1NV206	2	B	X	4.0	PL	AD	0	RP			CN-1554.16.	C03			PRF	
1NV218	2	B	X	4.0	PL	AD	0	RP			CN-1554.16.	C06			PRF	
1NV220	2	C		3.0	CK	SA	-	CV			CN-1554.11.	G04			PRF	
1NV252A	2	B		8.0	GA	EL	C	Q	J10	CS	CN-1554.17.	K11	10	S	PRF	10
1NV252A	2	B		8.0	GA	EL	C	MT	J10	CS	CN-1554.17.	K11	10	S	PRF	11
1NV252A	2	B		8.0	GA	EL	C	RP			CN-1554.17.	K11		S	PRF	
1NV253B	2	B		8.0	GA	EL	C	Q	J10	CS	CN-1554.17.	K12	10	S	PRF	10
1NV253B	2	B		8.0	GA	EL	C	MT	J10	CS	CN-1554.17.	K12	10	S	PRF	11
1NV253B	2	B		8.0	GA	EL	C	RP			CN-1554.17.	K12		S	PRF	
1NV254	2	C		8.0	CK	SA	-	CV	J05	RR	CN-1554.17.	K12			O/P	101

DUKE POWER COMPANY
CATAMBA NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
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CURRENT REVISION NUMBER: 11

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.
INV268	2	C		2.0	CK	SA	-	CV			1CN-1554.17.	I05			PRF	01
INV270	2	C		4.0	CK	SA	-	CV	J06	RR	1CN-1554.17.	I05			PRF	01
INV288	2	C		2.0	CK	SA	-	CV			1CN-1554.17.	E05			PRF	01
INV290	2	C		4.0	CK	SA	-	CV	J06	RR	1CN-1554.17.	D05			PRF	01
INV312A	2	B		3.0	GA	EL	0	Q	J04	CS	1CN-1554.12.	K05			S	PRF
INV312A	2	B		3.0	GA	EL	0	MT	J04	CS	1CN-1554.12.	K05	10		S	PRF
INV312A	2	B		3.0	GA	EL	0	RP			1CN-1554.12.	K05			S	PRF
INV314B	2	B		3.0	GA	EL	0	Q	J04	CS	1CN-1554.12.	K06			S	PRF
INV314B	2	B		3.0	GA	EL	0	MT	J04	CS	1CN-1554.12.	K06	10		S	PRF
INV314B	2	B		3.0	GA	EL	0	RP			1CN-1554.12.	K06			S	PRF
INV813	2	C		8.0	CK	SA	-	CV	J08	RR	1CN-1554.17.	B13			O/P	01
INV865A	2	B		3.0	GL	EL	C	Q			1CN-1554.18.	H01			T	PRF
INV865A	2	B		3.0	GL	EL	C	MT			1CN-1554.18.	H01	20		T	PRF
INV865A	2	B		3.0	GL	EL	C	RP			1CN-1554.18.	H01			T	PRF
INV872A	2	A		2.0	GL	EL	C	Q			1CN-1554.18.	F08			T	PRF
INV872A	2	A		2.0	GL	EL	C	LT			1CN-1554.18.	F08			T	PRF
INV872A	2	A		2.0	GL	EL	C	MT			1CN-1554.18.	F08	10		T	PRF
INV872A	2	A		2.0	GL	EL	C	RP			1CN-1554.18.	F08			T	PRF
INV874	2	AC		2.0	CK	SA	-	CV	J09	RF	1CN-1554.18.	F10			PRF	
INV874	2	AC		2.0	CK	SA	-	LT			1CN-1554.18.	F10			PRF	

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1NW 06	2	C		1.0	CK	SA	-	CV	K01	RF	CN-1569.10.	G11			OPS	
1NW 08A	2	B		1.0	GA	S	C	Q			CN-1569.10.	G13			PRF	
1NW 08A	2	B		1.0	GA	S	C	FS			CN-1569.10.	G13			PRF	01
1NW 08A	2	B		1.0	GA	S	C	MT			CN-1569.10.	G13	2		PRF	08
1NW 08A	2	B		1.0	GA	S	C	RP			CN-1569.10.	G13			PRF	
1NW 13A	2	B		1.0	GA	S	C	Q			CN-1569.10.	E09		P	PRF	
1NW 13A	2	B		1.0	GA	S	C	MT			CN-1569.10.	E09	2	P	PRF	08
1NW 13A	2	B		1.0	GA	S	C	RP			CN-1569.10.	E09		P	PRF	
1NW 17	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E11			PRF	
1NW 20A	2	B		1.0	GA	S	C	Q			CN-1569.10.	F09		T	PRF	
1NW 20A	2	B		1.0	GA	S	C	MT			CN-1569.10.	F09	2	T	PRF	08
1NW 20A	2	B		1.0	GA	S	C	RP			CN-1569.10.	F09		T	PRF	
1NW 21	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E12			PRF	01
1NW 24	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E13			PRF	01
1NW 27	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E14			PRF	01
1NW 35A	2	B		1.0	GL	EL	C	Q			CN-1569.10.	H09		T	PRF	
1NW 35A	2	B		1.0	GL	EL	C	MT			CN-1569.10.	H09	10	T	PRF	
1NW 35A	2	B		1.0	GL	EL	C	RP			CN-1569.10.	H09		T	PRF	
1NW 37	2	C		1.0	CK	SA	-	CV	K02	RF	CN-1569.10.	I09			PRF	01

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1NW 40	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	J11			PRF	01
1NW 43	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	J10			PRF	01
1NW 46A	2	B		1.0	GA	S	C	Q			CN-1569.10.	K09		P	PRF	01
1NW 46A	2	B		1.0	GA	S	C	MT			CN-1569.10.	K09	2	P	PRF	08
1NW 46A	2	B		1.0	GA	S	C	RP			CN-1569.10.	K09		P	PRF	01
1NW 47	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	L10			PRF	
1NW 50	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	K11			PRF	
1NW 53	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	K11			PRF	
1NW 61B	2	B		1.0	GA	S	C	Q			CN-1569.10.	G02			PRF	
1NW 61B	2	B		1.0	GA	S	C	FS			CB-1569.10.	G02			PRF	01
1NW 61B	2	B		1.0	GA	S	C	MT			CN-1569.10.	G02	2		PRF	08
1NW 61B	2	B		1.0	GA	S	C	RP			CN-1569.10.	G02			PRF	
1NW 63	2	C		1.0	CK	SA	-	CV	K01	RF	CN-1569.10.	G04			OPS	
1NW 68B	2	B		1.0	GA	S	C	Q			CN-1569.10.	E05		P	PRF	
1NW 68B	2	B		1.0	GA	S	C	MT			CN-1569.10.	E05	2	P	PRF	08
1NW 68B	2	B		1.0	GA	S	C	RP			CN-1569.10.	E05		P	PRF	
1NW 69B	2	B		1.0	GA	S	C	Q			CN-1569.10.	F06		T	PRF	
1NW 69B	2	B		1.0	GA	S	C	MT			CN-1569.10.	F06	2	T	PRF	08
1NW 69B	2	B		1.0	GA	S	C	RP			CN-1569.10.	F06		T	PRF	

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1NW 70	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E05			PRF	01
1NW 74	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E05			PRF	01
1NW 77	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E04			PRF	01
1NW 80	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E03			PRF	01
1NW 83	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E02			PRF	01
1NW 86	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E01			PRF	01
1NW 89	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C05			PRF	01
1NW 92	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C05			PRF	01
1NW 95	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C04			PRF	01
1NW 98	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C02			PRF	01
1NW101	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C01			PRF	01
1NW105B	2	B		1.0	GL	EL	C	Q			CN-1569.10.	H06		T	PRF	
1NW105B	2	B		1.0	GL	EL	C	MT			CN-1569.10.	H06	10	T	PRF	

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1NW105B	2	B		1.0	GL	EL	C	RP			CN-1569.10.	H06			PRF	
1NW107	2	C		1.0	CK	SA	-	CV	K02	RF	CN-1569.10.	I06			PRF	01
1NW109	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	K05			PRF	01
1NW110B	2	B		1.0	CA	S	C	Q			CN-1569.10.	K06		P	PRF	01
1NW110B	2	B		1.0	CA	S	C	MT			CN-1569.10.	K06	2	P	PRF	08
1NW110B	2	B		1.0	CA	S	C	RP			CN-1569.10.	K06		P	PRF	
1NW111	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	J05			PRF	01
1NW114	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	L05			PRF	01
1NW120	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	J05			PRF	01
1NW121	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E01			PRF	01
1NW122	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E02			PRF	01
1NW123	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E03			PRF	01
1NW124	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E04			PRF	01
1NW125	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E05			PRF	01

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1NW126	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	E05	1	1	1	1	1	PRF	101
1NW127	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	C01	1	1	1	1	1	PRF	101
1NW128	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	C02	1	1	1	1	1	PRF	101
1NW129	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	C04	1	1	1	1	1	PRF	101
1NW130	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	C05	1	1	1	1	1	PRF	101
1NW131	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	C05	1	1	1	1	1	PRF	101
1NW132	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	K10	1	1	1	1	1	PRF	101
1NW133	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	K11	1	1	1	1	1	PRF	101
1NW134	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	K11	1	1	1	1	1	PRF	101
1NW135	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	J10	1	1	1	1	1	PRF	101
1NW136	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	J11	1	1	1	1	1	PRF	101
1NW138	1	2	1	C	1	0.5	1	CK	1	SA	1	-	1	CV	1	K02	1	RF	1	CN-1569.10.	1	D11	1	1	1	1	1	PRF	101

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1NW139	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E12			PRF	01
1NW140	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E13			PRF	01
1NW141	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	E14			PRF	01
1NW145B	2	B		1.0	GA	S	C	Q			CN-1569.10.	C05		P	PRF	01
1NW145B	2	B		1.0	GA	S	C	MT			CN-1569.10.	C05	2	P	PRF	08
1NW145B	2	B		1.0	GA	S	C	RP			CN-1569.10.	C05		P	PRF	01
1NW146B	2	B		1.0	GA	S	C	Q			CN-1569.10.	E02		P	PRF	
1NW146B	2	B		1.0	GA	S	C	MT			CN-1569.10.	E02	2	P	PRF	03
1NW146B	2	B		1.0	GA	S	C	RP			CN-1569.10.	E02		P	PRF	
1NW147	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	J07			PRF	01
1NW148	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	J07			PRF	01
1NW159	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	J12			PRF	01
1NW160	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	J12			PRF	01
1NW163	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	K12			PRF	01
1NW164	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	K12			PRF	01

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1NW168	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	K13			PRF	01
1NW169	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	K13			PRF	01
1NW171	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	J13			PRF	01
1NW172	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	J13			PRF	01
1NW175A	2	B		1.0	GA	S	C	Q			CN-1569.10.	C12			PRF	01
1NW175A	2	B		1.0	GA	S	C	FS			CN-1569.10.	C12			PRF	01
1NW175A	2	B		1.0	GA	S	C	MT			CN-1569.10.	C12	2		PRF	08
1NW175A	2	B		1.0	GA	S	C	RP			CN-1569.10.	C12			PRF	01
1NW176	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C12			PRF	01
1NW179	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C12			PRF	01
1NW180A	2	B		1.0	GA	S	C	Q			CN-1569.10.	C13			PRF	01
1NW180A	2	B		1.0	GA	S	C	FS			CN-1569.10.	C13			PRF	01
1NW180A	2	B		1.0	GA	S	C	MT			CN-1569.10.	C13	2		PRF	08
1NW180A	2	B		1.0	GA	S	C	RP			CN-1569.10.	C13			PRF	01
1NW183	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C13			PRF	01
1NW184	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C13			PRF	01

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1NW185A	2	B		1.0	GA	S	C	Q			CN-1569.10.	C13			PRF	01
1NW185A	2	B		1.0	GA	S	C	FS			CN-1569.10.	C13			PRF	01
1NW185A	2	B		1.0	GA	S	C	MT			CN-1569.10.	C13	2		PRF	01
1NW185A	2	B		1.0	GA	S	C	RP			CN-1569.10.	C13			PRF	01
1NW188	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C13			PRF	01
1NW189	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C13			PRF	01
1NW190A	2	B		0.5	GA	S	C	Q			CN-1569.10.	C14			PRF	01
1NW190A	2	B		0.5	GA	S	C	FS			CN-1569.10.	C14			PRF	01
1NW190A	2	B		0.5	GA	S	C	MT			CN-1569.10.	C14	2		PRF	08
1NW190A	2	B		0.5	GA	S	C	RP			CN-1569.10.	C14			PRF	01
1NW193	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C14			PRF	01
1NW194	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	C14			PRF	01
1NW195A	2	B		0.5	GA	S	C	Q			CN-1569.10.	E08			PRF	01
1NW195A	2	B		0.5	GA	S	C	FS			CN-1569.10.	E08			PRF	01
1NW195A	2	B		0.5	GA	S	C	MT			CN-1569.10.	E08	2		PRF	08
1NW195A	2	B		0.5	GA	S	C	RP			CN-1569.10.	E08			PRF	01
1NW196	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	F08			PRF	01
1NW197	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569.10.	F08			PRF	01
1NW200A	2	B		0.5	GA	S	C	Q			CN-1569.10.	E08			PRF	01
1NW200A	2	B		0.5	GA	S	C	FS			CN-1569.10.	E08			PRF	01
1NW200A	2	B		0.5	GA	S	C	MT			CN-1569.10.	E08	2		PRF	08
1NW200A	2	B		0.5	GA	S	C	RP			CN-1569.10.	E08			PRF	01

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1NW201	2	C		0.5	CK	SA	-	CV	K02	RF	ICN-1569.10.	D08			PRF	101
1NW202	2	C		0.5	CK	SA	-	CV	K02	RF	ICN-1569.10.	D08			PRF	101
1NW205	2	C		0.5	CK	SA	-	CV	K02	RF	ICN-1569.10.	F07			PRF	101
1NW206	2	C		0.5	CK	SA	-	CV	K02	RF	ICN-1569.10.	F07			PRF	101
1NW209	2	C		0.5	CK	SA	-	CV	K02	RF	ICN-1569.10.	E07			PRF	101
1NW210	2	C		0.5	CK	SA	-	CV	K02	RF	ICN-1569.10.	E07			PRF	101
1NW213	2	C		0.5	CK	SA	-	CV	K02	RF	ICN-1569.10.	C07			PRF	101
1NW214	2	C		0.5	CK	SA	-	CV	K02	RF	ICN-1569.10.	C07			PRF	101
1NW217B	2	B		1.0	GA	S	C	Q			ICN-1569.10.	C08			PRF	101
1NW217B	2	B		1.0	GA	S	C	FS			ICN-1569.10.	C08			PRF	101
1NW217B	2	B		1.0	GA	S	C	MT			ICN-1569.10.	C08	2		PRF	108
1NW217B	2	B		1.0	GA	S	C	RP			ICN-1569.10.	C08			PRF	101
1NW218	2	C		0.5	CK	SA	-	CV	K02	RF	ICN-1569.10.	C08			PRF	101
1NW219	2	C		0.5	CK	SA	-	CV	K02	RF	ICN-1569.10.	C08			PRF	101

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

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CURRENT REVISION NUMBER: 11

VALVE NUMBER	ACME 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.
1NW222B	2	B		1.0	GA	S	C	Q			1CN-1569.10.	C09			PRF	101
1NW222B	2	B		1.0	GA	S	C	FS			1CN-1569.10.	C09			PRF	101
1NW222B	2	B		1.0	GA	S	C	MT			1CN-1569.10.	C09	2		PRF	108
1NW222B	2	B		1.0	GA	S	C	RP			1CN-1569.10.	C09			PRF	101
1NW223	2	C		0.5	CK	SA	-	CV	1K02	RF	1CN-1569.10.	C09			PRF	101
1NW224	2	C		0.5	CK	SA	-	CV	1K02	RF	1CN-1569.10.	C09			PRF	101
1NW227B	2	B		1.0	GA	S	C	Q			1CN-1569.10.	C09			PRF	101
1NW227B	2	B		1.0	GA	S	C	FS			1CN-1569.10.	C09			PRF	101
1NW227B	2	B		1.0	GA	S	C	MT			1CN-1569.10.	C09	2		PRF	108
1NW227B	2	B		1.0	GA	S	C	RP			1CN-1569.10.	C09			PRF	101
1NW230	2	C		0.5	CK	SA	-	CV	1K02	RF	1CN-1569.10.	C09			PRF	101
1NW231	2	C		0.5	CK	SA	-	CV	1K02	RF	1CN-1569.10.	C09			PRF	101
1NW232B	2	B		1.0	GA	S	C	Q			1CN-1569.10.	C10			PRF	101
1NW232B	2	B		1.0	GA	S	C	FS			1CN-1569.10.	C10			PRF	101
1NW232B	2	B		1.0	GA	S	C	MT			1CN-1569.10.	C10	2		PRF	108
1NW232B	2	B		1.0	GA	S	C	RP			1CN-1569.10.	C10			PRF	101
1NW235	2	C		0.5	CK	SA	-	CV	1K02	RF	1CN-1569.10.	C10			PRF	101
1NW236	2	C		0.5	CK	SA	-	CV	1K02	RF	1CN-1569.10.	C10			PRF	101
1NW237B	2	B		1.0	GA	S	C	Q			1CN-1569.10.	C11			PRF	101

DUKE POWER COMPANY
CATHART NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

THE UNIVERSITY OF
CLINICAL
NEWTON
NEWTON, MASSACHUSETTS

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DAVE POWER COMPANY
CHICAGO NUCLEAR STATION
VALVE
INSERVICE TESTING COMMENTS
DATE SUPPLIED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 11

VALVE NUMBER	ROW CLASS	DATE GON	PASS- AVE	VALVE DATE	VALVE TYPE	VALVE TYPE	WORN PCGN	TEST REQD	TEST REQD	FLOW DTHROW	COORD- INATE	VALVE TIME	ESP	REF GROUP	REV NO.
000000	1 1 1	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	10	000000	000000	00
000001	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	00	000000	000000	00
000002	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	00	000000	000000	00
000003	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	00	000000	000000	00
000004	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	00	000000	000000	00
000005	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	00	000000	000000	00
000006	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	00	000000	000000	00
000007	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	00	000000	000000	00
000008	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	00	000000	000000	00
000009	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	00	000000	000000	00
000010	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000	00	000000	000000	00

[illegible]

[illegible]

Year	Number of cases	Rate per 100,000
1990	1,000	1.0
1991	1,100	1.1
1992	1,200	1.2
1993	1,300	1.3
1994	1,400	1.4
1995	1,500	1.5
1996	1,600	1.6
1997	1,700	1.7
1998	1,800	1.8
1999	1,900	1.9
2000	2,000	2.0
2001	2,100	2.1
2002	2,200	2.2
2003	2,300	2.3
2004	2,400	2.4
2005	2,500	2.5
2006	2,600	2.6
2007	2,700	2.7
2008	2,800	2.8
2009	2,900	2.9
2010	3,000	3.0
2011	3,100	3.1
2012	3,200	3.2
2013	3,300	3.3
2014	3,400	3.4
2015	3,500	3.5
2016	3,600	3.6
2017	3,700	3.7
2018	3,800	3.8
2019	3,900	3.9
2020	4,000	4.0

ELITE POWER COMPANY
CHESAPEAKE VALLEY DIVISION
VALVE INSERVICE TESTING COMPONENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 11

VALVE NUMBER	NAME	DATE- CLASS	QRT	PROB- TIME	VALVE SIZE	VALVE TYPE	ACTR TYPE	ACTR TYPE	NOT FROM	TEST REQD	REF RUST	TEST PLAN	FLOW DRAINAGE	COORD- INATE	VALVE TIME	ESP	RESP GROUP	REV NO.
140 15					3.0		CK	SA	-	CV	W01	RR	1CN-1609.40.	F02			O/P	108
140 16					3.0		CK	SA	-	CV	W01	RR	1CN-1609.40.	F13			O/P	108
140 17					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 18					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 19					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 20					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 21					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 22					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 23					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 24					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 25					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 26					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 27					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 28					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 29					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 30					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 31					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 32					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 33					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 34					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 35					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 36					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 37					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 38					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 39					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 40					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 41					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 42					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 43					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 44					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 45					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 46					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 47					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 48					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 49					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 50					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 51					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 52					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 53					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 54					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 55					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 56					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 57					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 58					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 59					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 60					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 61					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 62					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 63					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 64					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 65					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 66					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 67					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 68					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 69					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 70					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 71					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 72					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 73					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 74					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 75					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 76					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 77					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 78					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 79					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 80					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 81					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 82					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 83					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 84					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 85					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 86					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 87					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 88					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 89					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 90					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 91					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 92					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 93					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 94					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108
140 95					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D05	2		O/P	108
140 96					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D05			O/P	108
140 97					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D05			O/P	108
140 98					3.0		CK	SA		G	W02	RR	1CN-1609.40.	D10	2		O/P	108
140 99					3.0		CK	SA		MT	W02	RR	1CN-1609.40.	D10			O/P	108
140 100					3.0		CK	SA		RP	W02	RR	1CN-1609.40.	D10			O/P	108

DUKE POWER COMPANY
CATARAUGUS NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 11

VALVE NUMBER	ASME CLASS	DATE- GWT	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTN TYPE	WORM PUSH	TEST REQD	TEST RST	TEST ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	RESP GROUP	REV NO.
140 49	3	C		1.0	CR	SA	-	CV			DN-1609.41.	102		QFS	108
140 50	3	C		1.0	CR	SA	-	CV			DN-1609.41.	113		QFS	108
140 51	3	C		1.0	CR	SA	-	CV			DN-1609.41.	102		QFS	108
140 52	3	C		1.0	CR	SA	-	CV			DN-1609.41.	113		QFS	108
140 53	3	C		3.0	CR	SA	-	CV	1401	RR	DN-1609.41.	F02		O/P	108
140 60	3	C		3.0	CR	SA	-	CV	1401	RR	DN-1609.41.	F13		O/P	108
140 67	3	C		3.0	CR	SA	-	Q	1402	RR	DN-1609.41.	E05	2	O/P	108
140 68	3	C		3.0	CR	SA	-	NT	1402	RR	DN-1609.41.	E05	2	O/P	108
140 69	3	C		3.0	CR	SA	-	RP	1402	RR	DN-1609.41.	E05	2	O/P	108
140 70	3	C		3.0	CR	SA	-	Q	1402	RR	DN-1609.41.	B10	2	O/P	108
140 71	3	C		3.0	CR	SA	-	NT	1402	RR	DN-1609.41.	B10	2	O/P	108
140 72	3	C		3.0	CR	SA	-	RP	1402	RR	DN-1609.41.	B10	2	O/P	108
140 73	3	C		3.0	CR	SA	-	Q	1402	RR	DN-1609.41.	E05	2	O/P	108
140 74	3	C		3.0	CR	SA	-	NT	1402	RR	DN-1609.41.	E05	2	O/P	108
140 75	3	C		3.0	CR	SA	-	RP	1402	RR	DN-1609.41.	E05	2	O/P	108
140 76	3	C		3.0	CR	SA	-	Q	1402	RR	DN-1609.41.	C10	2	O/P	108
140 77	3	C		3.0	CR	SA	-	NT	1402	RR	DN-1609.41.	C10	2	O/P	108
140 78	3	C		3.0	CR	SA	-	RP	1402	RR	DN-1609.41.	C10	2	O/P	108

Duke Power Company
CATAWBA NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 11

VALVE NUMBER	ASME CLASS	DATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	SELF ROST	TEST PLAN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.	
1V6 73	1	3	1	3.0	1	CK	SA	-	CV	1W01	RR	CN-1609.41.				0/P	106
1V6 74	1	3	1	3.0	1	CK	SA	-	CV	1W01	RR	CN-1609.41.				0/P	106
1V6 75	1	3	1	3.0	1	CK	SA	-	CV	1W01	RR	CN-1609.41.				0/P	106
1V6 76	1	3	1	3.0	1	CK	SA	-	CV	1W01	RR	CN-1609.41.				0/P	106
1V1 77B	2	4	1	2.0	1	GL	EL	0	Q	R02	CS	CN-1605.11.			P	PRF	101
1V1 77B	2	4	1	2.0	1	GL	EL	0	LT			CN-1605.11.			P	PRF	101
1V1 77B	2	4	1	2.0	1	GL	EL	0	MT	R02	CS	CN-1605.11.	10		P	PRF	101
1V1 77B	2	4	1	2.0	1	GL	EL	0	RP			CN-1605.11.			P	PRF	101
1V1 79	2	4	1	2.0	1	CK	SA	-	CV	R01	RF	CN-1605.11.				PRF	101
1V1 79	2	4	1	2.0	1	CK	SA	-	LT			CN-1605.11.				PRF	101
1V1312A	2	4	1	2.0	1	GL	EL	0	Q			CN-1605.11.			T	PRF	101
1V1312A	2	4	1	2.0	1	GL	EL	0	LT			CN-1605.11.			T	PRF	101
1V1312A	2	4	1	2.0	1	GL	EL	0	MT			CN-1605.11.	10		T	PRF	101
1V1312A	2	4	1	2.0	1	GL	EL	0	RP			CN-1605.11.			T	PRF	101
1VP 01B	2	4	1	24.	1	BF	AD	0	Q	S01	RR	CN-1576.10.			T	PRF	101
1VP 01B	2	4	1	24.	1	BF	AD	0	FS	S01	RR	CN-1576.10.			T	PRF	101
1VP 01B	2	4	1	24.	1	BF	AD	0	LT			CN-1576.10.	5		T	PRF	101
1VP 01B	2	4	1	24.	1	BF	AD	0	RP			CN-1576.10.			T	PRF	102
1VP 02A	2	4	1	24.	1	BF	AD	0	Q	S01	RR	CN-1576.10.			T	PRF	101
1VP 02A	2	4	1	24.	1	BF	AD	0	FS	S01	RR	CN-1576.10.			T	PRF	101
1VP 02A	2	4	1	24.	1	BF	AD	0	LT			CN-1576.10.			T	PRF	101

DUKE POWER COMPANY
CATAMBA NUCLEAR STATION
VALVE INSERVICE TESTING COMMITMENTS
DATA SORTED BY VALVE NUMBER AND TEST REQUIREMENT

CURRENT REVISION NUMBER: 11

VALVE NUMBER	ASME CLASS	CATE- GORY	PASS- IVE	VALVE SIZE	VALVE TYPE	VALVE TYPE	ACTR TYPE	NORM POSN	TEST REQD	TEST RQST	REL ALTN	FLOW DIAGRAM	COORD- INATE	VALVE TIME	ESF	RESP GROUP	REV NO.
1VP 02A	2	A		24.	BF	AD	AD	C	MT	S01	RR	CN-1576.10.	106	5	T	PRF	02
1VP 02A	2	A		24.	BF	AD	AD	C	RP			CN-1576.10.	106		T	PRF	
1VP 03B	2	A		24.	BF	AD	AD	C	Q	S01	RR	CN-1576.10.	H05		T	PRF	01
1VP 03B	2	A		24.	BF	AD	AD	C	FS	S01	RR	CN-1576.10.	H05		T	PRF	01
1VP 03B	2	A		24.	BF	AD	AD	C	LT			CN-1576.10.	H05		T	PRF	
1VP 03B	2	A		24.	BF	AD	AD	C	MT	S01	RR	CN-1576.10.	H05	5	T	PRF	02
1VP 03B	2	A		24.	BF	AD	AD	C	RP			CN-1576.10.	H05		T	PRF	
1VP 04A	2	A		24.	BF	AD	AD	C	Q	S01	RR	CN-1576.10.	H06		T	PRF	01
1VP 04A	2	A		24.	BF	AD	AD	C	FS	S01	RR	CN-1576.10.	H06		T	PRF	01
1VP 04A	2	A		24.	BF	AD	AD	C	LT			CN-1576.10.	H06		T	PRF	
1VP 04A	2	A		24.	BF	AD	AD	C	MT	S01	RR	CN-1576.10.	H06	5	T	PRF	02
1VP 04A	2	A		24.	BF	AD	AD	C	RP			CN-1576.10.	H06		T	PRF	
1VP 06B	2	A		24.	BF	AD	AD	C	Q	S01	RR	CN-1576.10.	G05		T	PRF	01
1VP 06B	2	A		24.	BF	AD	AD	C	FS	S01	RR	CN-1576.10.	G05		T	PRF	01
1VP 06B	2	A		24.	BF	AD	AD	C	LT			CN-1576.10.	G05		T	PRF	
1VP 06B	2	A		24.	BF	AD	AD	C	MT	S01	RR	CN-1576.10.	G05	5	T	PRF	02
1VP 06B	2	A		24.	BF	AD	AD	C	RP			CN-1576.10.	G05		T	PRF	
1VP 07A	2	A		24.	BF	AD	AD	C	Q	S01	RR	CN-1576.10.	G06		T	PRF	01
1VP 07A	2	A		24.	BF	AD	AD	C	FS	S01	RR	CN-1576.10.	G06		T	PRF	01
1VP 07A	2	A		24.	BF	AD	AD	C	LT			CN-1576.10.	G06		T	PRF	
1VP 07A	2	A		24.	BF	AD	AD	C	MT	S01	RR	CN-1576.10.	G06	5	T	PRF	02
1VP 07A	2	A		24.	BF	AD	AD	C	RP			CN-1576.10.	G06		T	PRF	
1VP 08B	2	A		24.	BF	AD	AD	C	Q	S01	RR	CN-1576.10.	F05		T	PRF	01
1VP 08B	2	A		24.	BF	AD	AD	C	FS	S01	RR	CN-1576.10.	F05		T	PRF	01
1VP 08B	2	A		24.	BF	AD	AD	C	LT			CN-1576.10.	F05		T	PRF	
1VP 08B	2	A		24.	BF	AD	AD	C	MT	S01	RR	CN-1576.10.	F05	5	T	PRF	02
1VP 08B	2	A		24.	BF	AD	AD	C	RP			CN-1576.10.	F05		T	PRF	
1VP 09A	2	A		24.	BF	AD	AD	C	Q	S01	RR	CN-1576.10.	F06		T	PRF	01
1VP 09A	2	A		24.	BF	AD	AD	C	FS	S01	RR	CN-1576.10.	F06		T	PRF	01
1VP 09A	2	A		24.	BF	AD	AD	C	LT			CN-1576.10.	F06		T	PRF	
1VP 09A	2	A		24.	BF	AD	AD	C	MT	S01	RR	CN-1576.10.	F06	5	T	PRF	02
1VP 09A	2	A		24.	BF	AD	AD	C	RP			CN-1576.10.	F06		T	PRF	

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1VP 09A	2	A		24.	BF	AD	C	RP			CN-1576.10.	F06		T	PRF	
1VP 10A	2	A		24.	BF	AD	C	Q	S01	RR	CN-1576.10.	I09		T	PRF	01
1VP 10A	2	A		24.	BF	AD	C	FS	S01	RR	CN-1576.10.	I09		T	PRF	01
1VP 10A	2	A		24.	BF	AD	C	LT			CN-1576.10.	I09		T	PRF	
1VP 10A	2	A		24.	BF	AD	C	MT	S01	RR	CN-1576.10.	I09	5	T	PRF	02
1VP 10A	2	A		24.	BF	AD	C	RP			CN-1576.10.	I09		T	PRF	
1VP 11B	2	A		24.	BF	AD	C	Q	S01	RR	CN-1576.10.	I10		T	PRF	01
1VP 11B	2	A		24.	BF	AD	C	FS	S01	RR	CN-1576.10.	I10		T	PRF	01
1VP 11B	2	A		24.	BF	AD	C	LT			CN-1576.10.	I10		T	PRF	
1VP 11B	2	A		24.	BF	AD	C	MT	S01	RR	CN-1576.10.	I10	5	T	PRF	02
1VP 11B	2	A		24.	BF	AD	C	RP			CN-1576.10.	I10		T	PRF	
1VP 12A	2	A		24.	BF	AD	C	Q	S01	RR	CN-1576.10.	H09		T	PRF	01
1VP 12A	2	A		24.	BF	AD	C	FS	S01	RR	CN-1576.10.	H09		T	PRF	01
1VP 12A	2	A		24.	BF	AD	C	LT			CN-1576.10.	H09		T	PRF	
1VP 12A	2	A		24.	BF	AD	C	MT	S01	RR	CN-1576.10.	H09	5	T	PRF	02
1VP 12A	2	A		24.	BF	AD	C	RP			CN-1576.10.	H09		T	PRF	
1VP 13B	2	A		24.	BF	AD	C	Q	S01	RR	CN-1576.10.	H10		T	PRF	01
1VP 13B	2	A		24.	BF	AD	C	FS	S01	RR	CN-1576.10.	H10		T	PRF	01
1VP 13B	2	A		24.	BF	AD	C	LT			CN-1576.10.	H10		T	PRF	
1VP 13B	2	A		24.	BF	AD	C	MT	S01	RR	CN-1576.10.	H10	5	T	PRF	02
1VP 13B	2	A		24.	BF	AD	C	RP			CN-1576.10.	H10		T	PRF	
1VP 15A	2	A		24.	BF	AD	C	Q	S01	RR	CN-1576.10.	F09		T	PRF	01
1VP 15A	2	A		24.	BF	AD	C	FS	S01	RR	CN-1576.10.	F09		T	PRF	
1VP 15A	2	A		24.	BF	AD	C	LT			CN-1576.10.	F09		T	PRF	
1VP 15A	2	A		24.	BF	AD	C	MT	S01	RR	CN-1576.10.	F09	5	T	PRF	02
1VP 15A	2	A		24.	BF	AD	C	RP			CN-1576.10.	F09		T	PRF	
1VP 16B	2	A		24.	BF	AD	C	Q	S01	RR	CN-1576.10.	F10		T	PRF	01
1VP 16B	2	A		24.	BF	AD	C	FS	S01	RR	CN-1576.10.	F10		T	PRF	01
1VP 16B	2	A		24.	BF	AD	C	LT			CN-1576.10.	F10		T	PRF	
1VP 16B	2	A		24.	BF	AD	C	MT	S01	RR	CN-1576.10.	F10	5	T	PRF	01
1VP 16B	2	A		24.	BF	AD	C	RP			CN-1576.10.	F10		T	PRF	

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1VP 17A	2	A		12.	BF	AD	C	Q	S01	RR	CN-1576.10.	E09		T	PRF	01
1VP 17A	2	A		12.	BF	AD	C	FS	S01	RR	CN-1576.10.	E09		T	PRF	01
1VP 17A	2	A		12.	BF	AD	C	LT			CN-1576.10.	E09		T	PRF	
1VP 17A	2	A		12.	BF	AD	C	MT	S01	RR	CN-1576.10.	E09	5	T	PRF	02
1VP 17A	2	A		12.	BF	AD	C	RP			CN-1576.10.	E09		T	PRF	
1VP 18B	2	A		12.	BF	AD	C	Q	S01	RR	CN-1576.10.	E10		T	PRF	01
1VP 18B	2	A		12.	BF	AD	C	FS	S01	RR	CN-1576.10.	E10		T	PRF	01
1VP 18B	2	A		12.	BF	AD	C	LT			CN-1576.10.	E10		T	PRF	
1VP 18B	2	A		12.	BF	AD	C	MT	S01	RR	CN-1576.10.	E10	5	T	PRF	02
1VP 18B	2	A		12.	BF	AD	C	RP			CN-1576.10.	E10		T	PRF	
1VP 19A	2	A		12.	BF	AD	C	Q	S01	RR	CN-1576.10.	E06		T	PRF	01
1VP 19A	2	A		12.	BF	AD	C	FS	S01	RR	CN-1576.10.	E06		T	PRF	01
1VP 19A	2	A		12.	BF	AD	C	LT			CN-1576.10.	E06		T	PRF	
1VP 19A	2	A		12.	BF	AD	C	MT	S01	RR	CN-1576.10.	E06	5	T	PRF	02
1VP 19A	2	A		12.	BF	AD	C	RP			CN-1576.10.	E06		T	PRF	
1VP 20B	2	A		12.	BF	AD	C	Q	S01	RR	CN-1576.10.	E05		T	PRF	01
1VP 20B	2	A		12.	BF	AD	C	FS	S01	RR	CN-1576.10.	E05		T	PRF	01
1VP 20B	2	A		12.	BF	AD	C	LT			CN-1576.10.	E05		T	PRF	
1VP 20B	2	A		12.	BF	AD	C	MT	S01	RR	CN-1576.10.	E05	5	T	PRF	02
1VP 20B	2	A		12.	BF	AD	C	RP			CN-1576.10.	E05		T	PRF	
1VQ 02A	2	A		4.0	GA	EL	C	Q			CN-1585.10.	I02		T	PRF	
1VQ 02A	2	A		4.0	GA	EL	C	LT			CN-1585.10.	I02		T	PRF	
1VQ 02A	2	A		4.0	GA	EL	C	MT			CN-1585.10.	I02	5	T	PRF	
1VQ 02A	2	A		4.0	GA	EL	C	RP			CN-1585.10.	I02		T	PRF	
1VQ 03B	2	A		4.0	GA	EL	C	Q			CN-1585.10.	G02		T	PRF	
1VQ 03B	2	A		4.0	GA	EL	C	LT			CN-1585.10.	G02		T	PRF	
1VQ 03B	2	A		4.0	GA	EL	C	MT			CN-1585.10.	G02	5	T	PRF	
1VQ 03B	2	A		4.0	GA	EL	C	RP			CN-1585.10.	G02		T	PRF	

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1VQ 15B	2	A		4.0	GA	EL	C	Q			CN-1585.10.	I11		T	PRF	
1VQ 15B	2	A		4.0	GA	EL	C	LT			CN-1585.10.	I11		T	PRF	
1VQ 15B	2	A		4.0	GA	EL	C	MT			CN-1585.10.	I11	5	T	PRF	
1VQ 15B	2	A		4.0	GA	EL	C	RP			CN-1585.10.	I11		T	PRF	
1VQ 16A	2	A		4.0	GA	EL	C	Q			CN-1585.10.	J11		T	PRF	
1VQ 16A	2	A		4.0	GA	EL	C	LT			CN-1585.10.	J11		T	PRF	
1VQ 16A	2	A		4.0	GA	EL	C	MT			CN-1585.10.	J11	5	T	PRF	
1VQ 16A	2	A		4.0	GA	EL	C	RP			CN-1585.10.	J11		T	PRF	
1VS 54B	2	A		3.0	GA	EL	C	Q			CN-1605.21.	G10		T	PRF	
1VS 54B	2	A		3.0	GA	EL	C	LT			CN-1605.21.	G10		T	PRF	
1VS 54B	2	A		3.0	GA	EL	C	MT			CN-1605.21.	G10	15	T	PRF	
1VS 54B	2	A		3.0	GA	EL	C	RP			CN-1605.21.	G10		T	PRF	
1VS 56	2	AC		3.0	CK	SA	-	CV	T01	RF	CN-1605.21.	G12			PRF	01
1VS 56	2	AC		3.0	CK	SA	-	LT			CN-1605.21.	G12			PRF	
1VX 01A	2	B		12.	BF	EL	C	Q			CN-1557.10.	G03		P	PRF	
1VX 01A	2	B		12.	BF	EL	C	MT			CN-1557.10.	G03	66	P	PRF	02
1VX 01A	2	B		12.	BF	EL	C	RP			CN-1557.10.	G03		P	PRF	
1VX 02B	2	B		12.	BF	EL	C	Q			CN-1557.10.	G14		P	PRF	
1VX 02B	2	B		12.	BF	EL	C	MT			CN-1557.10.	G14	66	P	PRF	02
1VX 02B	2	B		12.	BF	EL	C	RP			CN-1557.10.	G14		P	PRF	
1VY 15B	2	A		4.0	GA	EL	C	Q			CN-1559.10.	F07		T	PRF	
1VY 15B	2	A		4.0	GA	EL	C	LT			CN-1559.10.	F07		T	PRF	
1VY 15B	2	A		4.0	GA	EL	C	MT			CN-1559.10.	F07	10	T	PRF	
1VY 15B	2	A		4.0	GA	EL	C	RP			CN-1559.10.	F07		T	PRF	
1VY 16	2	AC		4.0	CK	SA	-	CV	U01	RF	CN-1559.10.	D07			PRF	01
1VY 16	2	AC		4.0	CK	SA	-	LT			CN-1559.10.	D07			PRF	

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1VY 17A	2	A		4.0	GA	EL	C	Q			CN-1559.10.	E04		T	PRF	
1VY 17A	2	A		4.0	GA	EL	C	LT			CN-1559.10.	E04		T	PRF	
1VY 17A	2	A		4.0	GA	EL	C	MT			CN-1559.10.	E04	10	T	PRF	
1VY 17A	2	A		4.0	GA	EL	C	RP			CN-1559.10.	E04		T	PRF	
1VY 18B	2	A		4.0	GA	EL	C	Q			CN-1559.10.	G04		T	PRF	
1VY 18B	2	A		4.0	GA	EL	C	LT			CN-1559.10.	G04		T	PRF	
1VY 18B	2	A		4.0	GA	EL	C	MT			CN-1559.10.	G04	10	T	PRF	
1VY 18B	2	A		4.0	GA	EL	C	RP			CN-1559.10.	G04		T	PRF	
1WE 20	2	A	X	1.0	GL	M	LC	LT			CN-1568.10.	E11			PRF	
1WE 22	2	A	X	1.0	GL	M	LC	LT			CN-1568.10.	E13			PRF	
1WL A22	2	AC	X	.75	RL/CK	SA	-	LT			CN-1565.26.	K10			PRF	01
1WL321	2	AC		.75	RL/CK	SA	-	LT			CN-1565.24.	H06			PRF	01
1WL450A	2	A		.75	GL	EL	O	Q			CN-1565.20.	I04		T	PRF	
1WL450A	2	A		.75	GL	EL	O	LT			CN-1565.20.	I04		T	PRF	
1WL450A	2	A		.75	GL	EL	O	MT			CN-1565.20.	I04	10	T	PRF	
1WL450A	2	A		.75	GL	EL	O	RP			CN-1565.20.	I04		T	PRF	
1WL451B	2	A		.75	GL	EL	O	Q			CN-1565.20.	J04		T	PRF	
1WL451B	2	A		.75	GL	EL	O	LT			CN-1565.20.	J04		T	PRF	
1WL451B	2	A		.75	GL	EL	O	MT			CN-1565.20.	J04	10	T	PRF	
1WL451B	2	A		.75	GL	EL	O	RP			CN-1565.20.	J04		T	PRF	
1WL805A	2	B		3.0	SA	EL	O	Q			CN-1565.20.	I08		T	PRF	
1WL805A	2	B		3.0	GA	EL	O	MT			CN-1565.20.	I08	10	T	PRF	

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1WL805A	2	B		3.0	GA	EL	0	RP			CN-1565.20.	I08		T	PRF	
1WL806	2	AC	X	.50	RL/CK	SA	-	LT			CN-1565.20.	I08			PRF	101
1WL807B	2	B		3.0	GA	EL	0	Q			CN-1565.20.	J08		T	PRF	
1WL807B	2	B		3.0	GA	EL	0	MT			CN-1565.20.	J08	10	T	PRF	
1WL807B	2	B		3.0	GA	EL	0	RP			CN-1565.20.	J08		T	PRF	
1WL825A	2	B		4.0	GA	EL	0	Q			CN-1565.24.	H07		T	PRF	
1WL825A	2	B		4.0	GA	EL	0	MT			CN-1565.24.	H07	10	T	PRF	
1WL825A	2	B		4.0	GA	EL	0	RP			CN-1565.24.	H07		T	PRF	
1WL827B	2	B		4.0	GA	EL	0	Q			CN-1565.24.	J07		T	PRF	
1WL827B	2	B		4.0	GA	EL	0	MT			CN-1565.24.	J07	10	T	PRF	
1WL827B	2	B		4.0	GA	EL	0	RP			CN-1565.24.	J07		T	PRF	
1WL867A	2	B		4.0	GA	EL	0	Q			CN-1565.21.	I07		P	PRF	
1WL867A	2	B		4.0	GA	EL	0	MT			CN-1565.21.	I07	10	P	PRF	
1WL867A	2	B		4.0	GA	EL	0	RP			CN-1565.21.	I07		P	PRF	
1WL868	2	AC	X	1.0	RL/CK	SA	-	LT			CN-1565.21.	I06			PRF	
1WL869B	2	B		6.0	GA	EL	0	Q			CN-1565.21.	H07		P	PRF	
1WL869B	2	B		6.0	GA	EL	0	MT			CN-1565.21.	H07	10	P	PRF	
1WL869B	2	B		6.0	GA	EL	0	RP			CN-1565.21.	H07		P	PRF	
1YC 65	3	C		8.0	CK	SA	-	CV			CN-1578.20.	B06			PRF	101
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	

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1VC108	3	C		8.0	CK	SA	-	CV			CN-1578.22.	C08			PRF	101
1VC121B	3	B		2.0	GA	EL	0	Q			CN-1578.22.	D12		S	PRF	
1VC121B	3	B		2.0	GA	EL	0	MT			CN-1578.22.	D12	11	S	PRF	
1VC121B	3	B		2.0	GA	EL	0	RP			CN-1578.22.	D12		S	PRF	
1YM119B	2	A		2.0	GA	EL	0	Q			CN-1601.31.	E06		T	PRF	
1YM119B	3	A		2.0	GA	EL	0	LT			CN-1601.31.	E06		T	PRF	
1YM119B	2	A		2.0	GA	EL	0	MT			CN-1601.31.	E06	10	T	PRF	
1YM119B	2	A		2.0	GA	EL	0	RP			CN-1601.31.	E06		T	PRF	
1YM121	2	AC		2.0	CK	SA	-	CV	V01	RF	CN-1601.31.	E04			PRF	101
1YM121	2	AC		2.0	CK	SA	-	LT			CN-1601.31.	E04			PRF	

NOTES TO THE COMMITMENT LIST

Note #1: The safety function of valves 1VG5, 1VG6, 1VG7, 1VG8, 1VG49, 1VG50, 1VG51 and 1VG52 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 Analyses 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. | 8
- Testing Alternative: Trend Analyses will not be performed on valves with stroke times of ≤ 2 seconds. Corrective maintenance will be initiated if stroke time exceeds maximum specified time. | 8
- 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 be manually 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. | 8
- 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: 1CA37, 1CA41, 1CA45, 1CA49, 1CA53, 1CA57, 1CA61, 1CA65
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.

3

3

RELIEF REQUEST #A2

VALVE: 1CA171, 1CA172
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: 1CA8, 1CA10, 1CA12

CATEGORY: C

CLASS: 3

FUNCTION: Close to prevent reverse flow to the 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 flow reversal.

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

RELIEF REQUEST #B1

VALVE: 1CF33, 1CF42, 1CF51, 1CF60

CATEGORY: B

CLASS: 2

FUNCTION: Isolates main feedwater piping from the 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: Closing 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 #B2

DELETED

8

RELIEF REQUEST #B3

DELETED

8

RELIEF REQUEST #C1

VALVE: 1KC320A, 1KC332B, 1KC333A

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: 1KC338B, 1KC424B, 1KC425A

CATEGORY: B

CLASS: 2

FUNCTION: Isolates flow to the reactor vessel support coolers, reactor coolant pump motor bearing coolers, reactor coolant pump thermal barriers, and steam generator blowdown heat exchangers 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, reactor coolant pump thermal barriers and steam generator blowdown heat exchangers. 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 #C3

VALVE: 1KC340

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 #D1

VALVE: 1NB262

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: 1NC57
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: 1NC32B, 1NC34A, 1NC36B

CATEGORY: B

CLASS: 1

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

TEST REQUIREMENTS: Exercise valve (Full Stroke) to the position required to fullfill 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 fullfill its function, stroke timed and failsafe actuation verified during cold shutdown.

RELIEF REQUEST #E03

VALVE: 1NC250A, 1NC251B, 1NC252B, 1NC253A

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: 1ND1B, 1ND2A

CATEGORY: B

CLASS: 1

FUNCTION: Valves open to provide suction to Residual Heat Removal Pump 1A 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 #F2

VALVE: 1ND36B, 1ND37A

CATEGORY: B

CLASS: 1

FUNCTION: Valves open to provide suction to Residual Heat Removal Pump 1B 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: 1ND10, 1ND44

CATEGORY: C

CLASS: 2

FUNCTION: Residual heat removal pump discharge check valve.

TEST REQUIREMENTS: Exercise check valve (Full Stroke) to the position required to fullfill 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 (1ND33) 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: 1ND32A, 1ND65B

CATEGORY: B

CLASS: 2

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

TEST REQUIREMENTS: Exercise valve (Full Stroke) to the position required to fullfill 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 of train of ND to be operable in Mode 4.

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

RELIEF REQUEST #G1

VALVE: INF229
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: INI12

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 INI12 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: 1NI15, 1NI17, 1NI19, 1NI21, 1NI351, 1NI352, 1NI353, 1NI354
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.

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

RELIEF REQUEST #H3

VALVE: 1NI60, 1NI71, 1NI82, 1NI94

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: 1NI48
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: 1NI59, 1NI70, 1NI81, 1NI93

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 exercising 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: 1NI101

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 (~ 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: 1NI100B

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: 1NI147B

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 pumps. 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: 1NI116, 1NI148
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 power operation since the only flowpath discharges into the reactor coolant system. Safety injection pump discharge pressure (~ 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: 1NI124, 1NI128, 1NI156, 1NI157, 1NI159, 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 (~ 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: INI125, INI129, INI126, INI134

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 cold shutdown.

RELIEF REQUEST #H12

VALVE: 1NI162A

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 timed during cold shutdown.

RELIEF REQUEST #H13

VALVE: 1NI165, 1NI167, 1NI169, 1NI171
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 (~ 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: 1NI175, 1NI176, 1NI180, 1NI181

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: 1NI248, 1NI249, 1NI250, 1NI251, 1NI252, 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 full or partial stroke exercised during power operation since upper head 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 (1NI250, 1NI251, 1NI252 or 1NI253) and one of the 12" check valves (1NI248 or 1NI249) 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 1NI342

CATEGORY: C

CLASS: 2

FUNCTION: Opens to provide suction to the safety injection pumps from residual heat removal pump 1B 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. 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 over pressurization 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 #H17

VALVE: 1NI438A, 1NI439B

CATEGORY: B

CLASS: 2

FUNCTION: Supplies nitrogen to PORV's during low pressure 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: Valves are interlocked closed when Reactor Coolant System temperature is above 300°F.

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

RELIEF REQUEST #H18

VALVE: 1NI173A, 1NI178B

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 REQUIREMENTS: Exercise (Full Stroke) to the position required to full-fill 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: Valves will be exercised (Full Stroke) to the position required to fullfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #H19

VALVE: 1NI183B

CATEGORY: B

CLASS: 2

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

TEST REQUIREMENTS: Exercise valve (Full Stroke) to the position required to full-fill 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 fullfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #H20

VALVES: 1NI9A, 1NI10B

CATEGORY: B

CLASS: 2

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

TEST REQUIREMENTS: Exercise valve (Full Stroke) to the position required to full-fill 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 fullfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #H21

VALVES: 1NI184B, 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 REQUIREMENTS: Exercise valve (Full Stroke) to the position required to fullfill 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 Radwaster Chemistry problem.

ALTERNATE TESTING: Valve will be exercised (Full Stroke) to the position required to fullfill its function and stroke time during Cold Shutdown.

RELIEF REQUEST #11

VALVE: INS13, INS16, INS30, INS33, INS41, INS46

CATEGORY: C

CLASS: 2

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

TEST REQUIREMENT(S): Exercise check 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 the 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.

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RELIEF REQUEST #I2

VALVE: 1NS4, 1NS21, 1NS98, 1NS99

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. Disassemble check valves and move disk with mechanical exerciser at each refueling.

RELIEF REQUEST #J1

VALVE: 1NV15B

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 exercise (full stroke) to the position required to fulfill its function and stroke timed during cold shutdown.

RELIEF REQUEST #J2

VALVE: 1NV89A, 1NV91B

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: INV188A, INV189B

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: 1NV312A, 1NV314B

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: 1NV254

CATEGORY: C

CLASS: 2

FUNCTION: Valve 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 power operation as this would increase the reactor coolant system boron inventory and possibly cause 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: 1NV270, 1NV290

CATEGORY: C

CLASS: 2

FUNCTION: Open to provide flow from the centrifugal charging pumps to the normal charging line or boron injection tank.

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 flow flowpath is through the Boron Injection Tank 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: INV202B, INV203A

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: INV813

CATEGORY: C

CLASS: 2

FUNCTION: Opens to provide suction to the centrifugal charging pumps from residual heat removal pump 1A 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: 1NV874
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: 1NV252B, 1NV253A

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 a 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: 1NW6, 1NW63

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 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: 1NW17, 1NW21, 1NW24, 1NW27, 1NW37, 1NW40, 1NW43, 1NW47, 1NW50,
1NW53, 1NW70, 1NW74, 1NW77, 1NW80, 1NW83, 1NW86, 1NW89, 1NW92,
1NW95, 1NW98, 1NW101, 1NW107, 1NW109, 1NW111, 1NW114, 1NW120,
1NW121 through 1NW136, 1NW138, 1NW139, 1NW140, 1NW141, 1NW147,
1NW148, 1NW159, 1NW160, 1NW163, 1NW164, 1NW168, 1NW169, 1NW171,
1NW172, 1NW178, 1NW179, 1NW183, 1NW184, 1NW188, 1NW189, 1NW193,
1NW194, 1NW196, 1NW197, 1NW201, 1NW202, 1NW205, 1NW206, 1NW209,
1NW210, 1NW213, 1NW214, 1NW218, 1NW219, 1NW223, 1NW224, 1NW230,
1NW231, 1NW235, 1NW236, 1NW240, 1NW241, 1NW245, 1NW246

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: 1RF392, 1RF448
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: 1RN49A, 1RN50B, 1RN51A, 1RN52B

CATEGORY: B

CLASS: 3

FUNCTION: These valves close upon receipt of a high-high containment pressure signal in order to isolate the Unit 1 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 on containment temperature could not be maintained without cooling water to the containment ventilation units. Possible damage to reactor coolant pumps 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: 1RN405, 1RN438
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: 1RN437B

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 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 #M4

VALVE: 1RN484A, 1RN487B

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 valves (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 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 #N1

VALVE: 1SM1, 1SM3, 1SM5, 1SM7
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/1/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 timed, and fail safe actuation verified at cold shutdown.

RELIEF REQUEST #P1

Relief Request Deleted

RELIEF REQUEST #Q1

VALVE: 1VB85
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: 1VI79
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: 1VI77B

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 of 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 #S1

VALVE: 1VP1B, 1VP2A, 1VP3B, 1VP4A, 1VP6B, 1VP7A, 1VP8B, 1VP9A, 1VP10A,
1VP11B, 1VP12A, 1VP13B, 1VP15A, 1VP16B, 1VP17A, 1VP18B, 1VP19A,
1VP20B

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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 places restrictions on the operational time and alignment permitted for the VP System during normal operation. Valves 1VP1B, 2A, 3B, 4A, 10A, 11B, 12A and 13B may be opened for only 250 hours per year while in modes 1-4. The rest of the VP valves are required to remain closed during modes 1-4.

1

ALTERNATE TESTING:

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

1

RELIEF REQUEST #T1

VALVE: 1VS56

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 #U1

VALVE: 1VY11, 1VY16

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 #V1

VALVE: 1YM121
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 #W1

VALVE: 1VG15, 1VG16, 1VG29, 1VG30, 1VG31, 1VG32, 1VG59, 1VG60, 1VG73, 1VG74,
1VG75, 1VG76

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/1/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.

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RELIEF REQUEST #W2

Valve: 1VG25, 1VG26, 1VG27, 1VG28, 1VG69, 1VG70, 1VG71, 1VG72

Category: B

Class: 3

Function: Open to supply starting air to Diesel Generators

Test Requirements: Exercise valve (full stroke) to the position required to fullfill its function and stroke time every 3 mos. 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: Valves will be verified to operate during monthly Tech Spec Diesel Test (PT/1/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 bank disabled at a time. The test will be performed twice, first with one bank disabled, then with the opposite bank disabled.

8

RELIEF REQUEST #X01

VALVE: 1KD6, 1KD21

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 Specs Diesel Test (PT/1/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: 1IASV5080, 1IASV5160

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: 1IACV5340, 1IACV5350, 1IACV5360, 1IACV5370, 1IACV5380, 1IACV5390.

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 #AA1

VALVE: 1FW28, 1FW56

CATEGORY: C

CLASS: 2

FUNCTION: Opens on flow from Refueling Water Storage Tank to suction of Residual Heat Removal Pumps.

TEST REQUIREMENTS: Exercise check valve (Full Stroke) to the position required to fullfill 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 (IND33) 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: 1SA3, 1SA6

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 any one valve fail to stroke acceptably, the remaining valve will also be disassembled.