

INSERVICE TESTING PROGRAM FOR  
PUMPS AND VALVES

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
UNIT 1

Docket No. 50-413

Revision #8

8502200083 850215  
PDR ADOCK 05000413  
P PDR

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			
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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## 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

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- 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)

## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REIF REQS	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
188147B	2	B		1.0	GL	EL	C	Q			CN-1580-10	K-07		T	PRF
188148B	2	B		1.0	GL	EL	C	RP			CN-1580-10	H-07		T	PRF
188148B	2	B		1.0	GL	EL	C	MT			CN-1580-10	H-07	10	T	PRF
188148B	2	B		1.0	GL	EL	C	Q			CN-1580-10	H-07		T	PRF
188149B	2	B		1.0	GL	EL	C	Q			CN-1580-10	F-07		T	PRF
188149B	2	B		1.0	GL	EL	C	MT			CN-1580-10	F-07	10	T	PRF
188149B	2	B		1.0	GL	EL	C	RP			CN-1580-10	F-07		T	PRF
188150B	2	B		1.0	GL	EL	C	RP			CN-1580-10	C-07		T	PRF
188150B	2	B		1.0	GL	EL	C	Q			CN-1580-10	C-07		T	PRF
188150B	2	B		1.0	GL	EL	C	MT			CN-1580-10	C-07	10	T	PRF
1CA 15A	3	B		6.0	GA	EL	C	RP			CN-1592-10	D-03			PRF
1CA 15A	3	B		6.0	GA	EL	C	Q			CN-1592-10	D-03			PRF
1CA 15A	3	B		6.0	GA	EL	C	MT			CN-1592-10	D-03	10		PRF
1CA 18B	3	B		6.0	GA	EL	C	MT			CN-1592-10	D-06	10		PRF
1CA 18B	3	B		6.0	GA	EL	C	RP			CN-1592-10	D-06			PRF
1CA 18B	3	B		6.0	GA	EL	C	Q			CN-1592-10	D-06			PRF
1CA 20	3	C		4.0	TH	SA	-	CV			CN-1592-10	I-12			PRF
1CA 23	3	C		2.5	CK	SA	-	CV			CN-1592-10	I-10			PRF
1CA 27	3	C		4.0	TH	SA	-	CV			CN-1592-10	I-05			PRF
1CA 28	3	C		2.0	CK	SA	-	CV			CN-1592-10	J-03			PRF
1CA 32	3	C		4.0	TH	SA	-	CV			CN-1592-10	I-09			PRF
1CA 33	3	C		2.0	CK	SA	-	CV			CN-1592-10	J-07			PRF
1CA 36	3	B		4.0	GL	AD	0	RP			CN-1592-11	C-12			PRF
1CA 36	3	B		4.0	GL	AD	0	FS			CN-1592-11	C-12			PRF
1CA 36	3	B		4.0	GL	AD	0	MT			CN-1592-11	C-12	20		PRF
1CA 36	3	B		4.0	GL	AD	0	Q			CN-1592-11	C-12			PRF
1CA8	3	C		10.	CK	SA	-	CV A03 RF			CN-1592-11	D-09			PRF
1CA10	3	C		10.	CK	SA	-	CV A03 RF			CN-1592-11	D-05			PRF
1CA12	3	C		10.	CK	SA	-	CV A03 RF			CN-1592-11	C-02			PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REF REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
ICA 37	2	C		4.0	CK	SA	-	CV	A01	CS	CN-1592-11	D-14			OPS
ICA 38A	2	B		4.0	GA	EL	C	Q			CN-1592-11	E-14			PRF
ICA 38A	2	B		4.0	GA	EL	C	RP			CN-1592-11	E-14			PRF
ICA 38A	2	B		4.0	GA	EL	C	MT			CN-1592-11	E-14	20		PRF
LCA 40	3	B		4.0	GL	AD	Ø	RP			CN-1592-11	J-13			PRF
ICA 40	3	B		4.0	GL	AD	Ø	FS			CN-1592-11	J-13			PRF
ICA 40	3	B		4.0	GL	AD	Ø	MT			CN-1592-11	J-13	20		PRF
ICA 40	3	B		4.0	GL	AD	Ø	Q			CN-1592-11	J-13			PRF
ICA 41	2	C		4.0	CK	SA	-	CV	A01	CS	CN-1592-11	H-14			OPS
ICA 42B	2	B		4.0	GA	EL	Ø	MT			CN-1592-11	H-14	20		PRF
ICA 42B	2	B		4.0	GA	EL	Ø	RP			CN-1592-11	H-14			PRF
ICA 42B	2	B		4.0	GA	EL	Ø	Q			CN-1592-11	H-14			PRF
ICA 44	3	B		4.0	GL	AD	Ø	RP			CN-1592-11	J-10			PRF
ICA 44	3	B		4.0	GL	AD	Ø	FS			CN-1592-11	J-10			PRF
ICA 44	3	B		4.0	GL	AD	Ø	MT			CN-1592-11	J-10	20		PRF
ICA 44	3	B		4.0	GL	AD	Ø	Q			CN-1592-11	J-10			PRF
ICA 45	2	C		4.0	CK	SA	-	CV	A01	CS	CN-1592-11	J-09			OPS
ICA 46B	2	B		4.0	GA	EL	Ø	MT			CN-1592-11	J-09	20		PRF
ICA 46B	2	B		4.0	GA	EL	Ø	RP			CN-1592-11	J-09			PRF
ICA 46B	2	B		4.0	GA	EL	Ø	Q			CN-1592-11	J-09			PRF
ICA 48	3	B		4.0	GL	AD	Ø	RP			CN-1592-11	E-08			PRF
ICA 48	3	B		4.0	GL	AD	Ø	FS			CN-1592-11	E-08			PRF
ICA 48	3	B		4.0	GL	AD	Ø	MT			CN-1592-11	E-08	20		PRF
ICA 48	3	B		4.0	GL	AD	Ø	Q			CN-1592-11	E-08			PRF
ICA 49	2	C		4.0	CK	SA	-	CV	A01	CS	CN-1592-11	H-09			OPS
ICA 50A	2	B		4.0	GA	EL	Ø	MT			CN-1592-11	J-09	20		PRF

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSEIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	RELF REQS	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1CA 50A	2	B		4.0	GA	EL	0	RP			CN-1592-11	J-09			PRF
1CA 50A	2	B		4.0	GA	EL	0	Q			CN-1592-11	J-09			PRF
1CA 52	3	B		4.0	GL	AD	0	RP			CN-1592-11	D-07			PRF
1CA 52	3	B		4.0	GL	AD	0	FS			CN-1592-11	D-07			PRF
1CA 52	3	B		4.0	GL	AD	0	MT			CN-1592-11	D-07	20		PRF
1CA 52	3	B		4.0	GL	AD	0	Q			CN-1592-11	D-07			PRF
1CA 53	2	C		4.0	CK	SA	-	CV	A01	CS	CN-1592-11	G-07			OPS
1CA 54B	2	B		4.0	GA	EL	0	MT			CN-1592-11	I-07	20		PRF
1CA 54B	2	B		4.0	GA	EL	0	RP			CN-1592-11	I-07			PRF
1CA 54B	2	B		4.0	GA	EL	0	Q			CN-1592-11	I-07			PRF
1CA 56	3	B		4.0	GL	AD	0	RP			CN-1592-11	J-05			PRF
1CA 56	3	B		4.0	GL	AD	0	FS			CN-1592-11	J-05			PRF
1CA 56	3	B		4.0	GL	AD	0	MT			CN-1592-11	J-05	20		PRF
1CA 56	3	B		4.0	GL	AD	0	Q			CN-1592-11	J-05			PRF
1CA 57	2	C		4.0	CK	SA	-	CV	A01	CS	CN-1592-11	J-06			OPS
1CA 58A	2	B		4.0	GA	EL	0	MT			CN-1592-11	J-06	20		PRF
1CA 58A	2	B		4.0	GA	EL	0	RP			CN-1592-11	J-06			PRF
1CA 58A	2	B		4.0	GA	EL	0	Q			CN-1592-11	J-06			PRF
1CA 60	3	B		4.0	GL	AD	0	RP			CN-1592-11	J-02			PRF
1CA 60	3	B		4.0	GL	AD	0	FS			CN-1592-11	J-02			PRF
1CA 60	3	B		4.0	GL	AD	0	MT			CN-1592-11	J-02	20		PRF
1CA 60	3	B		4.0	GL	AD	0	Q			CN-1592-11	J-02			PRF
1CA 61	2	C		4.0	CK	SA	-	CV	A01	CS	CN-1592-11	H-02			OPS
1CA 62A	2	B		4.0	GA	EL	0	Q			CN-1592-11	H-02			PRF
1CA 62A	2	B		4.0	GA	EL	0	RP			CN-1592-11	H-02			PRF
1CA 62A	2	B		4.0	GA	EL	0	MT			CN-1592-11	H-02	20		PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAHBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	RELF REQS	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1CA 64	3	B		4.0	GL	AD	0	RP			CN-1592-11	C-03			PRF
1CA 64	3	B		4.0	GL	AD	0	FS			CN-1592-11	C-03			PRF
1CA 64	3	B		4.0	GL	AD	0	MT			CN-1592-11	C-03	20		PRF
1CA 64	3	B		4.0	GL	AD	0	Q			CN-1592-11	C-03			PRF
1CA 65	2	C		4.0	CK	SA	-	CV	A01	CS	CN-1592-11	D-02			OPS
1CA 66B	2	B		4.0	GA	EL	C	Q			CN-1592-11	F-02			PRF
1CA 66B	2	B		4.0	GA	EL	C	RP			CN-1592-11	F-02			PRF
1CA 66B	2	B		4.0	GA	EL	C	MT			CN-1592-11	F-02	20		PRF
1CA 85B	3	B		6.0	GA	EL	C	Q			CN-1592-10	D-08			PRF
1CA 85B	3	B		6.0	GA	EL	C	MT			CN-1592-10	D-08	10		PRF
1CA 85B	3	B		6.0	GA	EL	C	RP			CN-1592-10	D-08			PRF
1CA116A	3	B		6.0	GA	EL	C	Q			CN-1592-10	D-08			PRF
1CA116A	3	B		6.0	GA	EL	C	RP			CN-1592-10	D-08			PRF
1CA116A	3	B		6.0	GA	EL	C	MT			CN-1592-10	D-08	10		PRF
1CA149	2	B		4.0	GA	P	C	Q			CN-1592-11	G-01		F	PRF
1CA149	2	B		4.0	GA	P	C	RP			CN-1592-11	G-01		F	PRF
1CA149	2	B		4.0	GA	P	C	MT			CN-1592-11	G-01	5	F	PRF
1CA149	2	B		4.0	GA	P	C	FS			CN-1592-11	G-01		F	FRF
1CA150	2	B		4.0	GA	P	C	FS			CN-1592-11	J-07		F	PRF
1CA150	2	B		4.0	GA	P	C	Q			CN-1592-11	J-07		F	PRF
1CA150	2	B		4.0	GA	P	C	RP			CN-1592-11	J-07		F	PRF
1CA150	2	B		4.0	GA	P	C	MT			CN-1592-11	J-07	5	F	PRF
1CA151	2	B		4.0	GA	P	C	FS			CN-1592-11	J-08		F	FRF
1CA151	2	B		4.0	GA	P	C	RP			CN-1592-11	J-08		F	PRF
1CA151	2	B		4.0	GA	P	C	Q			CN-1592-11	J-08		F	PRF
1CA151	2	B		4.0	GA	P	C	MT			CN-1592-11	J-08	5	F	PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATE- GORY	PAS- SIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	RELF REQS	TEST ALTER	FLOW DIAGRAM	COORD- INATES	VALVE TIME	ESF	RESP. PARTY
1CA152	2	B		4.0	GA	P	C	FS			CN-1592-11	F-14		F	PRF
1CA152	2	B		4.0	GA	P	C	Q			CN-1592-11	F-14		F	PRF
1CA152	2	B		4.0	GA	P	C	RP			CN-1592-11	F-14		F	PRF
1CA152	2	B		4.0	GA	P	C	MT			CN-1592-11	F-14	5	F	PRF
1CA171	3	C		6.0	CK	SA	-	CV	A02	RR	CN-1592-10	C-07			O/M
1CA172	3	C		6.0	CK	SA	-	CV	A02	RR	CN-1592-10	C-08			O/M
1CA185	2	B		2.0	GA	P	O	RP			CN-1592-11	E-03		F	PRF
1CA185	2	B		2.0	GA	P	O	Q			CN-1592-11	E-03		F	PRF
1CA185	2	B		2.0	GA	P	O	MT			CN-1592-11	E-03	5	F	PRF
1CA185	2	B		2.0	GA	P	O	FS			CN-1592-11	E-03		F	PRF
1CA186	2	B		2.0	GA	P	O	MT			CN-1592-11	I-06	5	F	PRF
1CA186	2	B		2.0	GA	P	O	FS			CN-1592-11	I-06		F	PRF
1CA186	2	B		2.0	GA	P	O	Q			CN-1592-11	I-06		F	PRF
1CA186	2	B		2.0	GA	P	O	RP			CN-1592-11	I-06		F	PRF
1CA187	2	B		2.0	GA	P	O	RP			CN-1592-11	I-10		F	PRF
1CA187	2	B		2.0	GA	P	O	FS			CN-1592-11	I-10		F	PRF
1CA187	2	B		2.0	GA	P	O	Q			CN-1592-11	I-10		F	PRF
1CA187	2	B		2.0	GA	P	O	MT			CN-1592-11	I-10	5	F	PRF
1CA188	2	B		2.0	GA	P	O	MT			CN-1592-11	D-14	5	F	PRF
1CA188	2	B		2.0	GA	P	O	FS			CN-1592-11	D-14		F	PRF
1CA188	2	B		2.0	GA	P	O	Q			CN-1592-11	D-14		F	PRF
1CA188	2	B		2.0	GA	P	O	RP			CN-1592-11	D-14		F	PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATALINA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATE GORY	PAS-SIVE	SIZE	VALVE TYPE	ACT	NORH POS.	TEST REQ.	SELF REQ.	TEST ALTER	FLOW DIAGRAM	COORD-INATES	VALVE TIME	ESF	RESP. PARTY
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ICF 33	2	B		18.	GA	H	O	RP			CN-1591-11	F-13		F	PRF
ICF 33	2	B		18.	GA	H	O	Q	B01	CS	CN-1591-11	F-13		F	PRF
ICF 33	2	B		18.	GA	H	O	MT	B01	CS	CN-1591-11	F-13	5	F	PRF

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ICF 42	2	B		18.	GA	H	O	RP			CN-1591-11	F-09		F	PRF
ICF 42	2	B		18.	GA	H	O	Q	B01	CS	CN-1591-11	F-09		F	PRF
ICF 42	2	B		18.	GA	H	O	MT	B01	CS	CN-1591-11	F-09	5	F	PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATANBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATE- GORY	PAS- SIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQS	TEST ALTER	FLOW DIAGRAM	COORD- INATES	VALVE TIME	ESF	RESP. PARTY
1CF 51	2	B		18.	GA	H	Ø	Q	B01	CS	CN-1591-11	F-06		F	PRF
1CF 51	2	B		18.	GA	H	Ø	MT	B01	CS	CN-1591-11	F-06	5	F	PRF
1CF 51	2	B		18.	GA	H	Ø	RP			CN-1591-11	F-06		F	PRF
1CF 60	2	B		18.	GA	H	Ø	RP			CN-1591-11	F-03		F	PRF
1CF 60	2	B		18.	GA	H	Ø	MT	B01	CS	CN-1591-11	F-03	5	F	PRF
1CF 60	2	B		18.	GA	H	Ø	Q	B01	CS	CN-1591-11	F-03		F	PRF
1CF 87	2	B		2.0	GA	AD	C	RP			CN-1591-11	F-02		F	PRF
1CF 87	2	B		2.0	GA	AD	C	Q			CN-1591-11	F-02		F	PRF
1CF 87	2	B		2.0	GA	AD	C	MT			CN-1591-11	F-02	5	F	PRF
1CF 87	2	B		2.0	GA	AD	C	FS			CN-1591-11	F-02		F	PRF
1CF 88	2	B		2.0	GA	AD	C	MT			CN-1591-11	F-06	5	F	PRF
1CF 88	2	B		2.0	GA	AD	C	FS			CN-1591-11	F-06		F	PRF
1CF 88	2	B		2.0	GA	AD	C	Q			CN-1591-11	F-06		F	PRF
1CF 88	2	B		2.0	GA	AD	C	RP			CN-1591-11	F-06		F	PRF
1CF 89	2	B		2.0	GA	AD	C	RP			CN-1591-11	F-09		F	PRF
1CF 89	2	B		2.0	GA	AD	C	FS			CN-1591-11	F-09		F	PRF
1CF 89	2	B		2.0	GA	AD	C	Q			CN-1591-11	F-09		F	PRF
1CF 89	2	B		2.0	GA	AD	C	MT			CN-1591-11	F-09	5	F	PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	RELF REQS	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1CF 90	2	B		2.0	GA	AD	C	MT			CN-1591-11	F-13	5	F	PRF
1CF 90	2	B		2.0	GA	AD	C	FS			CN-1591-11	F-13		F	PRF
1CF 90	2	B		2.0	GA	AD	C	Q			CN-1591-11	F-13		F	PRF
1CF 90	2	B		2.0	GA	AD	C	RP			CN-1591-11	F-13		F	PRF
1FD 22	3	B		2.0	GL	S	C	MT			CN-1609-30	J-13	2		PRF   8
1FD 22	3	B		2.0	GL	S	C	FS			CN-1609-30	J-13			PRF
1FD 22	3	B		2.0	GL	S	C	Q			CN-1609-30	J-13			PRF   1
1FD 62	3	B		2.0	GL	S	C	Q			CN-1609-31	J-12			PRF
1FD 62	3	B		2.0	GL	S	C	MT			CN-1609-31	J-12	2		PRF   8
1FD 62	3	B		2.0	GL	S	C	FS			CN-1609-31	J-12			PRF
1FW 01A	2	B		8.0	GA	EL	C	MT			CN-1571-10	J-13	10	S	PRF
1FW 01A	2	B		8.0	GA	EL	C	RP			CN-1571-10	J-13		S	PRF
1FW 01A	2	B		8.0	GA	EL	C	Q			CN-1571-10	J-13		S	PRF
1FW 04	2	A	X	6.0	GA	M	LC	LT			CN-1571-10	L-07			PRF
1FW 05	2	AC	X	6.0	CK	SA	-	LT			CN-1571-10	L-05			PRF
1FW 11	2	A	X	4.0	PL	M	LC	LT			CN-1571-10	J-04			PRF
1FW 13	2	A	X	4.0	PL	M	LC	LT			CN-1571-10	J-05			PRF
1FW 27A	2	B		12.	GA	EL	Ø	RP			CN-1571-10	F-03			PRF
1FW 27A	2	B		12.	GA	EL	Ø	MT			CN-1571-10	F-03	15		PRF
1FW 27A	2	B		12.	GA	EL	Ø	Q			CN-1571-10	F-03			PRF
1FW 28	2	C		12.	CK	SA	-	CV	AA1	CZ	CN-1571-10	F-02			O/P   11/7
1FW 32B	2	B		8.0	GA	EL	C	MT			CN-1571-10	J-13	10	S	PRF
1FW 32B	2	B		8.0	GA	EL	C	Q			CN-1571-10	J-13		S	PRF
1FW 32B	2	B		8.0	GA	EL	C	RP			CN-1571-10	J-13		S	PRF
1FW 33A	2	B		2.0	GL	EL	Ø	MT			CN-1571-10	B-11	10	S	PRF
1FW 33A	2	B		2.0	GL	EL	Ø	RP			CN-1571-10	B-11		S	PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1KC429B	2	A		2.0	GL	EL	0	RP			CN-1573-15	H-02		T	PRF
1KC429B	2	A		2.0	GL	EL	0	Q			CN-1573-15	H-02		T	PRF
1KC430A	2	A		2.0	GL	EL	0	MT			CN-1573-13	J-03	10	T	PRF
1KC430A	2	A		2.0	GL	EL	0	RP			CN-1573-13	H-02		T	PRF
1KC430A	2	A		2.0	GL	EL	0	LT			CN-1573-13	J-03		T	PRF
1KC430A	2	A		2.0	GL	EL	0	Q			CN-1573-13	H-02		T	PRF
1KD 6	3	C		8.0	CK	SA	-	CV	X01	RR	CN-1609-10	J-10			O/M
1KD 21	3	C		8.0	CK	SA	-	CV	X01	RR	CN-1609-10	E-10			O/M
1KF101B	2	B		4.0	GA	EL	C	RP			CN-1570-10	H-13		S	PRF
1KF101B	2	B		4.0	GA	EL	C	Q			CN-1570-10	H-13		S	PRF
1KF101B	2	B		4.0	GA	EL	C	MT			CN-1570-10	H-13	10	S	PRF
1KF103A	2	B		4.0	GA	EL	C	RP			CN-1570-10	H-12		S	PRF
1KF103A	2	B		4.0	GA	EL	C	Q			CN-1570-10	H-12		S	PRF
1KF103A	2	B		4.0	GA	EL	C	MT			CN-1570-10	H-12	10	S	PRF
1NB260B	2	A		1.0	GL	EL	C	RP			CN-1556-20	G-04		T	PRF
1NB260B	2	A		1.0	GL	EL	C	LT			CN-1556-20	G-04		T	PRF
1NB260B	2	A		1.0	GL	EL	C	MT			CN-1556-20	G-04	10	T	PRF
1NB260B	2	A		1.0	GL	EL	C	Q			CN-1556-20	G-04		T	PRF
1NB262	2	AC		.75	CK	SA	-	CV	D01	RF	CN-1556-20	G-06			PRF
1NB262	2	AC		.75	CK	SA	-	LT			CN-1556-20	G-06			PRF
1NC 1	1	C		6.0	RL	SA	-	SRV			CN-1553-11	K-03			MNT
1NC 2	1	C		6.0	RL	SA	-	SRV			CN-1553-11	K-04			MNT
1NC 3	1	C		6.0	RL	SA	-	SRV			CN-1553-11	K-06			MNT
1NC 32B	1	B		4.0	GL	P	C	FS	E02	CS	CN-1553-11	G-04			PRF
1NC 32B	1	B		4.0	GL	P	C	RP			CN-1553-11	G-04			PRF
1NC 32B	1	B		4.0	GL	P	C	MT	E02	CS	CN-1553-11	G-04	3		PRF
1NC31B	1	B		4.0	GA	EL	0	Q			CN-1553-11	F-04			PRF
	1	B		4.0	GA	EL	0	MT			CN-1553-11	F-04	10		PRF
	1	B		4.0	GA	EL	0	RP			CN-1553-11	F-04			PRF
1NC33A	1	B		4.0	GA	EL	0	Q			CN-1553-11	F-03			PRF
	1	B		4.0	GA	EL	0	MT			CN-1553-11	F-03	10		PRF
	1	B		4.0	GA	EL	0	RP			CN-1553-11	F-03			PRF
1NC35B	1	B		4.0	GA	EL	0	Q			CN-1553-11	F-02			PRF
	1	B		4.0	GA	EL	0	Q			CN-1553-11	F-02			PRF
	1	B		4.0	GA	EL	0	MT			CN-1553-11	F-02	10		PRF
	1	B		4.0	GA	EL	0	RP			CN-1553-11	F-02			PRF

## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	SELF REQ.	TEST ALTER	FLDN DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1NC195B	2	A		2.0	GA	EL	C	MT			CN-1553-13	E-07	10	T	PRF
1NC195B	2	A		2.0	GA	EL	C	LT			CN-1553-13	E-07		T	PRF
1NC196A	2	A		2.0	GA	EL	C	MT			CN-1553-13	D-08	10	T	PRF
1NC196A	2	A		2.0	GA	EL	C	RP			CN-1553-13	D-08		T	PRF
1NC196A	2	A		2.0	GA	EL	C	Q			CN-1553-13	D-08		T	PRF
1NC196A	2	A		2.0	GA	EL	C	LT			CN-1553-13	D-08		T	PRF
1NC250A	1	B		1.0	GL	EL	C	RP			CN-1553-11	L-07			PRF
1NC250A	1	B		1.0	GL	EL	C	MT	E03	CS	CN-1553-11	L-07	10		PRF
1NC250A	1	B		1.0	GL	EL	C	Q	E03	CS	CN-1553-11	L-07			PRF
1NC251B	1	B		1.0	GL	EL	C	Q	E03	CS	CN-1553-11	L-06			PRF
1NC251B	1	B		1.0	GL	EL	C	RP			CN-1553-11	L-06			PRF
1NC251B	1	B		1.0	GL	EL	C	MT	E03	CS	CN-1553-11	L-06	10		PRF
1NC252B	1	B		1.0	GL	EL	C	RP			CN-1553-11	K-07			PRF
1NC252B	1	B		1.0	GL	EL	C	MT	E03	CS	CN-1553-11	K-07	10		PRF
1NC252B	1	B		1.0	GL	EL	C	Q	E03	CS	CN-1553-11	K-07			PRF
1NC253A	1	B		1.0	GL	EL	C	Q	E03	CS	CN-1553-11	K-06			PRF
1NC253A	1	B		1.0	GL	EL	C	RP			CN-1553-11	K-06			PRF
1NC253A	1	B		1.0	GL	EL	C	MT	E03	CS	CN-1553-11	K-06	10		PRF
1ND 1B	1	A		12.	GA	EL	C	Q	F01	CS	CN-1561-10	L-13			PRF
1ND 1B	1	A		12.	GA	EL	C	MT	F01	CS	CN-1561-10	L-13	60		PRF
1ND 1B	1	A		12.	GA	EL	C	RP			CN-1561-10	L-13			PRF
1ND 2A	1	A		12.	GA	EL	C	LT		BV	CN-1561-10	L-13			PRF
1ND 2A	1	A		12.	GA	EL	C	RP			CN-1561-10	J-13			PRF
1ND 2A	1	A		12.	GA	EL	C	MT	F01	CS	CN-1561-10	J-13	60		PRF
1ND 2A	1	A		12.	GA	EL	C	Q	F01	CS	CN-1561-10	J-13			PRF
1ND 2A	1	A		12.	GA	EL	C	LT		BV	CN-1561-10	J-13			PRF
1ND 10	2	C		8.0	CK	SA	C	CV	F03	CZ	CN-1561-10	G-10			P/O
1ND 25A	2	B		2.0	GL	EL	C	MT			CN-1561-10	E-13	15		PRF

DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1ND 60	2	B		8.0	BF	AD	Ø	RP			CN-1561-11	G-04		S	PRF
1ND 60	2	B		8.0	BF	AD	Ø	Q			CN-1561-11	G-04		S	PRF
1ND 60	2	B		8.0	BF	AD	Ø	FS			CN-1561-11	G-04		S	PRF
1ND 60	2	B		8.0	BF	AD	Ø	MT			CN-1561-11	G-04	90	S	PRF
1ND 61	2	B		8.0	BF	AD	C	MT			CN-1561-11	J-06	90	S	PRF
1ND 61	2	B		8.0	BF	AD	C	FS			CN-1561-11	J-06		S	PRF
1ND 61	2	B		8.0	BF	AD	C	Q			CN-1561-11	J-06		S	PRF
1ND 61	2	B		8.0	BF	AD	C	RP			CN-1561-11	J-06		S	PRF
1ND 65B	2	B		8.0	GA	EL	Ø	RP			CN-1561-11	E-03			PRF
1ND 65B	2	B		8.0	GA	EL	Ø	Q	F04	CS	CN-1561-11	E-03			PRF
1ND 65B	2	B		8.0	GA	EL	Ø	MT	F04	CS	CN-1561-11	E-03	10		PRF
1NF 228A	2	A		4.0	GA	AD	Ø	RP			CN-1558-20	H-14		T	PRF
1NF 228A	2	A		4.0	GA	AD	Ø	MT			CN-1558-20	H-14	10	T	PRF
1NF 228A	2	A		4.0	GA	AD	Ø	FS			CN-1558-20	H-14		T	PRF
1NF 228A	2	A		4.0	GA	AD	Ø	LT			CN-1558-20	H-14		T	PRF
1NF 228A	2	A		4.0	GA	AD	Ø	Q			CN-1558-20	H-14		T	PRF
1NF 229	2	AC		4.0	CK	SA	-	CV	G01	RF	CN-1558-20	F-14			PRF
1NF 229	2	AC		4.0	CK	SA	-	LT			CN-1558-20	F-14			PRF
1NF 233B	2	A		4.0	GA	EL	Ø	MT			CN-1558-20	L-10	10	T	PRF
1NF 233B	2	A		4.0	GA	EL	Ø	LT			CN-1558-20	L-10		T	PRF
1NF 233B	2	A		4.0	GA	EL	Ø	RP			CN-1558-20	L-10		T	PRF
1NF 233B	2	A		4.0	GA	EL	Ø	Q			CN-1558-20	L-10		T	PRF
1NF 234A	2	A		4.0	GA	AD	Ø	Q			CN-1558-20	L-12		T	PRF
1NF 234A	2	A		4.0	GA	AD	Ø	RP			CN-1558-20	L-12		T	PRF
1NF 234A	2	A		4.0	GA	AD	Ø	MT			CN-1558-20	L-12	10	T	PRF
1NF 234A	2	A		4.0	GA	AD	Ø	LT			CN-1558-20	L-12		T	PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
INF234A	2	A		4.0	GA	AD	Ø	FS			CN-1558-20	L-12		T	PRF   8
INF235	2	AC	X	0.5	RL/CK	SA	-	LT			CN-1558-20	K-10			PRF
INI 9A	2	B		4.0	GA	EL	C	Q	H20	CS	CN-1562-10	E-04		S	PRF   7
INI 9A	2	B		4.0	GA	EL	C	RP			CN-1562-10	E-04		S	PRF
INI 9A	2	B		4.0	GA	EL	C	MT	H20	CS	CN-1562-10	E-04	10	S	PRF   7
INI 10B	2	B		4.0	GA	EL	C	RP			CN-1562-10	E-03		S	PRF
INI 10B	2	B		4.0	GA	EL	C	Q	H20	CS	CN-1562-10	E-03		S	PRF   7
INI 10B	2	B		4.0	GA	EL	C	MT	H20	CS	CN-1562-10	E-03	10	S	PRF
INI 12	2	C		3.0	CK	SA	-	CV	H01	RF	CN-1562-10	H-03			PRF
INI 15	1	C		1.5	CK	SA	-	CV	H02	RF	CN-1562-10	L-06			PRF
INI 17	1	C		1.5	CK	SA	-	CV	H02	RF	CN-1562-10	L-04			PRF   1
INI 19	1	C		1.5	CK	SA	-	CV	H02	RF	CN-1562-10	L-03			PRF
INI 21	1	C		1.5	CK	SA	-	CV	H02	RF	CN-1562-10	L-02			PRF
INI 47A	2	A		1.0	GL	EL	C	Q			CN-1562-11	L-08		T	PRF
INI 47A	2	A		1.0	GL	EL	C	LT			CN-1562-11	L-08		T	PRF
INI 47A	2	A		1.0	GL	EL	C	RP			CN-1562-11	L-08		T	PRF
INI 47A	2	A		1.0	GL	EL	C	MT			CN-1562-11	L-08	10	T	PRF
INI 48	2	AC		1.0	CK	SA	-	LT			CN-1562-11	L-08			PRF
INI 48	2	AC		1.0	CK	SA	-	CV	H04	RF	CN-1562-11	L-08			PRF   1
INI 54A	1	B	X	10.	GL	EL	Ø	RP			CN-1562-11	G-02		S	PRF
INI 59	1	AC		10.	CK	SA	-	LT		BV	CN-1562-11	D-02			PRF
INI 59	1	AC		10.	CK	SA	-	CV	H05	RR	CN-1562-11	D-02			O/M   1   7
INI 60	1	AC		10.	CK	SA	-	CV	H03	RR	CN-1562-11	C-02			O/M   8
INI 60	1	AC		10.	CK	SA	-	LT		BV	CN-1562-11	C-02			PRF
INI 65B	1	B	X	10.	GL	EL	Ø	RP			CN-1562-11	G-04		S	PRF
INI 70	1	AC		10.	CK	SA	-	LT		BV	CN-1562-11	D-05			PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PAS-SIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	HELP REQS	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
INI 70	1	AC		10.	CK	SA	-	CV	H05	RR	CN-1562-11	D-05			O/M 11   7
INI 71	1	AC		10.	CK	SA	-	LT		BV	CN-1562-11	C-05			PRF
INI 71	1	AC		10.	CK	SA	-	CV	H03	RR	CN-1562-11	C-05			O/M 11   8
INI 76A	1	B	X	10.	GL	EL	Ø	RP			CN-1562-11	G-07		S	PRF
INI 81	1	AC		10.	CK	SA	-	CV	H05	RR	CN-1562-11	D-07			O/M 11   7
INI 81	1	AC		10.	CK	SA	-	LT		BV	CN-1562-11	D-07			PRF
INI 82	1	AC		10.	CK	SA	-	LT		BV	CN-1562-11	C-07			PRF
INI 82	1	AC		10.	CK	SA	-	CV	H03	RR	CN-1562-11	C-07			O/M 11   8
INI 88B	1	B	X	10.	GL	EL	Ø	RP			CN-1562-11	G-10		S	PRF
INI 93	1	AC		10.	CK	SA	-	LT		BV	CN-1562-11	D-10			PRF 11   7
INI 93	1	AC		10.	CK	SA	-	CV	H05	RR	CN-1562-11	D-10			O/M 11   7
INI 94	1	AC		10.	CK	SA	-	LT		BV	CN-1562-11	C-10			PRF
INI 94	1	AC		10.	CK	SA	-	CV	H03	RR	CN-1562-11	C-10			O/M 11   8
INI 95A	2	A		.75	GL	EL	C	Q			CN-1562-11	F-13		T	PRF
INI 95A	2	A		.75	GL	EL	C	LT			CN-1562-11	F-13		T	PRF
INI 95A	2	A		.75	GL	EL	C	RP			CN-1562-11	F-13		T	PRF
INI 95A	2	A		.75	GL	EL	C	MT			CN-1562-11	F-13	10	T	PRF
INI 96B	2	A		.75	GL	EL	C	RP			CN-1562-11	H-13		T	PRF
INI 96B	2	A		.75	GL	EL	C	LT			CN-1562-11	H-13		T	PRF
INI 96B	2	A		.75	GL	EL	C	Q			CN-1562-11	H-13		T	PRF
INI 96B	2	A		.75	GL	EL	C	MT			CN-1562-11	H-13	10	T	PRF
INI100B	2	B		8.0	GA	EL	Ø	MT	H07	CS	CN-1562-12	G-13	10		PRF 17
INI100B	2	B		8.0	GA	EL	Ø	RP			CN-1562-12	G-13			PRF
INI100B	2	B		8.0	GA	EL	Ø	Q	H07	CS	CN-1562-12	G-13			PRF
INI101	2	C		8.0	CK	SA	-	CV	H06	RR	CN-1562-12	G-13			PRF 11

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1NI173A	2	B		8.0	GA	EL	Ø	RP			CN-1562-13	E-10			PRF
1NI173A	2	B		8.0	GA	EL	Ø	Q	H18	CS	CN-1562-13	E-10			PRF
1NI173A	2	B		8.0	GA	EL	Ø	MT	H18	CS	CN-1562-13	E-10	60		PRF 11/7
1NI175	1	AC		6.0	CK	SA	-	CV	H14	CS	CN-1562-13	F-11			OPS
1NI175	1	AC		6.0	CK	SA	-	LT		BV	CN-1562-13	F-11			PRF
1NI176	1	AC		6.0	CK	SA	-	CV	H14	CS	CN-1562-13	F-10			OPS
1NI176	1	AC		6.0	CK	SA	-	LT		BV	CN-1562-13	F-10			PRF
1NI178B	2	B		8.0	GA	EL	Ø	RP			CN-1562-13	E-04			PRF
1NI178B	2	B		8.0	GA	EL	Ø	Q	H18	CS	CN-1562-13	E-04			PRF
1NI178B	2	B		8.0	GA	EL	Ø	MT	H18	CS	CN-1562-13	E-04	60		PRF 11/7
1NI180	1	AC		6.0	CK	SA	-	LT		BV	CN-1562-13	F-05			PRF
1NI180	1	AC		6.0	CK	SA	-	CV	H14	CS	CN-1562-13	F-05			OPS
1NI181	1	AC		6.0	CK	SA	-	LT		BV	CN-1562-13	F-04			PRF
1NI181	1	AC		6.0	CK	SA	-	CV	H14	CS	CN-1562-13	F-04			OPS
1NI183B	2	B		12.	GA	EL	C	Q	H19	CS	CN-1562-12	G-04			PRF
1NI183B	2	B		12.	GA	EL	C	MT	H19	CS	CN-1562-12	G-04	20		PRF 17
1NI183B	2	B		12.	GA	EL	C	RP			CN-1562-12	G-04			PRF
1NI184B	2	B		18.	GA	EL	C	Q			CN-1562-13	C-10			PRF
1NI184B	2	B		18.	GA	EL	C	RP			CN-1562-13	C-10			PRF
1NI184B	2	B		18.	GA	EL	C	MT			CN-1562-13	C-10	22		PRF
1NI185A	2	B		18.	GA	EL	C	RP			CN-1562-13	C-05			PRF
1NI185A	2	B		18.	GA	EL	C	MT			CN-1562-13	C-05	22		PRF
1NI185A	2	B		18.	GA	EL	C	Q			CN-1562-13	C-05			PRF
1NI242B	2	B		12.	GA	AD	Ø	MT			CN-1562-14	C-09	5		PRF 18
1NI242B	2	B		12.	GA	AD	Ø	Q			CN-1562-14	C-09			PRF
1NI242B	2	B		12.	GA	AD	Ø	RP			CN-1562-14	C-09			PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLON DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
INI243A	2	B		12.	GA	AD	0	MT			CN-1562-14	C-07	5		PRF   8
INI243A	2	B		12.	GA	AD	0	Q			CN-1562-14	C-07			PRF
INI243A	2	B		12.	GA	AD	0	RP			CN-1562-14	C-07			PRF
INI244B	2	B		12.	GA	AD	0	Q			CN-1562-14	K-08			PRF
INI244B	2	B		12.	GA	AD	0	RP			CN-1562-14	K-08			PRF
INI244B	2	B		12.	GA	AD	0	MT			CN-1562-14	K-08	5		PRF   8
INI245A	2	B		12.	GA	AD	0	RP			CN-1562-14	K-07			PRF
INI245A	2	B		12.	GA	AD	0	MT			CN-1562-14	K-07	5		PRF   8
INI245A	2	B		12.	GA	AD	0	Q			CN-1562-14	K-07			PRF
INI248	1	AC		12.	CK	SA	-	CV	H15	RF	CN-1562-14	C-05			MNT   1
INI248	1	AC		12.	CK	SA	-	LT		BV	CN-1562-14	C-05			PRF
INI249	1	AC		12.	CK	SA	-	LT		BV	CN-1562-14	K-05			PRF
INI249	1	AC		12.	CK	SA	-	CV	H15	RF	CN-1562-14	K-05			MNT   1
INI250	1	AC		8.0	CK	SA	-	LT		BV	CN-1562-14	J-03			PRF
INI250	1	AC		8.0	CK	SA	-	CV	H15	RF	CN-1562-14	J-03			MNT   1
INI251	1	AC		8.0	CK	SA	-	LT		BV	CN-1562-14	L-03			PRF
INI251	1	AC		8.0	CK	SA	-	CV	H15	RF	CN-1562-14	L-03			MNT   1
INI252	1	AC		8.0	CK	SA	-	CV	H15	RF	CN-1562-14	D-03			MNT   1
INI252	1	AC		8.0	CK	SA	-	LT		BV	CN-1562-14	D-03			PRF
INI253	1	AC		8.0	CK	SA	-	LT		BV	CN-1562-14	B-03			PRF
INI253	1	AC		8.0	CK	SA	-	CV	H15	RF	CN-1562-14	B-03			MNT   1
INI255B	2	A		2.0	GL	EL	C	RP			CN-1562-14	G-07		T	PRF
INI255B	2	A		2.0	GL	EL	C	MT			CN-1562-14	G-07	10	T	PRF
INI255B	2	A		2.0	GL	EL	C	LT			CN-1562-14	G-07		T	PRF
INI255B	2	A		2.0	GL	EL	C	Q			CN-1562-14	G-07		T	PRF
INI258A	2	A		.75	GL	EL	C	MT			CN-1562-14	F-06	10	T	PRF
INI258A	2	A		.75	GL	EL	C	RP			CN-1562-14	F-06		T	PRF
INI258A	2	A		.75	GL	EL	C	LT			CN-1562-14	F-06		T	PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1NM 08A	2	B		1.0	GA	S	C	MT			CN-1569-10	G-13	2		PRF 18
1NM 09A	2	B		1.0	GA	S	C	Q			CN-1569-10	G-13			PRF
1NM 13A	2	B		1.0	GA	S	C	Q			CN-1569-10	E-09		P	PRF
1NM 13A	2	B		1.0	GA	S	C	RP			CN-1569-10	E-09		P	PRF
1NM 13A	2	B		1.0	GA	S	C	MT			CN-1569-10	E-09	2	P	PRF 18
1NM 17	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-11			PRF 11
1NM 20A	2	B		1.0	GA	S	C	Q			CN-1569-10	F-09		T	PRF
1NM 20A	2	B		1.0	GA	S	C	MT			CN-1569-10	F-09	2	T	PRF 18
1NM 20A	2	B		1.0	GA	S	C	RP			CN-1569-10	F-09		T	PRF
1NM 21	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-12			PRF
1NM 24	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-13			PRF 1
1NM 27	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-14			PRF
1NM 35A	2	B		1.0	GL	EL	C	RP			CN-1569-10	H-09		T	PRF
1NM 35A	2	B		1.0	GL	EL	C	MT			CN-1569-10	H-09	10	T	PRF
1NM 35A	2	B		1.0	GL	EL	C	Q			CN-1569-10	H-09		T	PRF
1NM 37	2	C		1.0	CK	SA	-	CV	K02	RF	CN-1569-10	I-09			PRF
1NM 40	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	J-11			PRF
1NM 43	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	J-10			PRF
1NM 46A	2	B		1.0	GA	S	C	Q			CN-1569-10	K-09		P	PRF
1NM 46A	2	B		1.0	GA	S	C	MT			CN-1569-10	K-09	2	P	PRF 118
1NM 46A	2	B		1.0	GA	S	C	RP			CN-1569-10	K-09		P	PRF
1NM 47	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	L-10			PRF
1NM 50	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	K-11			PRF
1NM 53	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	K-11			PRF
1NM 61B	2	B		1.0	GA	S	C	MT			CN-1569-10	G-02	2		PRF 18
1NM 61B	2	B		1.0	GA	S	C	RP			CN-1569-10	G-02			PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1NM 61B	2	B		1.0	GA	S	C	FS			CN-1569-10	G-02			PRF   1
1NM 61B	2	B		1.0	GA	S	C	Q			CN-1569-10	G-02			PRF
1NM 63	2	C		1.0	CK	SA	-	CV	K01	RF	CN-1569-10	G-04			OPS
1NM 68B	2	B		1.0	GA	S	C	MT			CN-1569-10	E-05	2	P	PRF   8
1NM 68B	2	B		1.0	GA	S	C	RP			CN-1569-10	E-05		P	PRF
1NM 68B	2	B		1.0	GA	S	C	Q			CN-1569-10	E-05		P	PRF
1NM 69B	2	B		1.0	GA	S	C	Q			CN-1569-10	F-06		T	PRF
1NM 69B	2	B		1.0	GA	S	C	RP			CN-1569-10	F-06		T	PRF
1NM 69B	2	B		1.0	GA	S	C	MT			CN-1569-10	F-06	2	T	PRF   8
1NM 70	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-05			PRF
1NM 74	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-05			PRF
1NM 77	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-04			PRF
1NM 80	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-03			PRF
1NM 83	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-02			PRF   1
1NM 86	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-01			PRF
1NM 89	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-05			PRF
1NM 92	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-05			PRF
1NM 95	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-04			PRF
1NM 98	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-02			PRF
1NM101	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-01			PRF
1NM105B	2	B		1.0	GL	EL	C	Q			CN-1569-10	H-06		T	PRF
1NM105B	2	B		1.0	GL	EL	C	RP			CN-1569-10	H-06		T	PRF
1NM105B	2	B		1.0	GL	EL	C	MT			CN-1569-10	H-06	10	T	PRF
1NM107	2	C		1.0	CK	SA	-	CV	K02	RF	CN-1569-10	I-06			PRF   1
1NM109	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	K-05			PRF
1NM110B	2	B		1.0	CA	S	C	MT			CN-1569-10	K-06	2	P	PRF   8

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1NM145B	2	B		1.0	GA	S	C	Q			CN-1569-10	C-05		P	PRF
1NM145B	2	B		1.0	GA	S	C	MT			CN-1569-10	C-05	2	P	PRF
1NM146B	2	B		1.0	GA	S	C	MT			CN-1569-10	E-02	2	P	PRF
1NM146B	2	B		1.0	GA	S	C	RP			CN-1569-10	E-02		P	PRF
1NM146B	2	B		1.0	GA	S	C	Q			CN-1569-10	E-02		P	PRF
1NM147	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	J-07			PRF
1NM148	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	J-07			PRF
1NM159	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	J-12			PRF
1NM160	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	J-12			PRF
1NM163	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	K-12			PRF
1NM164	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	K-12			PRF
1NM168	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	K-13			PRF
1NM169	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	K-13			PRF
1NM171	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	J-13			PRF
1NM172	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	J-13			PRF
1NM175A	2	B		1.0	GA	S	C	MT			CN-1569-10	C-12	2		PRF
1NM175A	2	B		1.0	GA	S	C	Q			CN-1569-10	C-12			PRF
1NM175A	2	B		1.0	GA	S	C	RP			CN-1569-10	C-12			PRF
1NM175A	2	B		1.0	GA	S	C	FS			CN-1569-10	C-12			PRF
1NM178	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-12			PRF
1NM179	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-12			PRF
1NM180A	2	B		1.0	GA	S	C	RP			CN-1569-10	C-13			PRF
1NM180A	2	B		1.0	GA	S	C	FS			CN-1569-10	C-13			PRF
1NM180A	2	B		1.0	GA	S	C	MT			CN-1569-10	C-13	2		PRF
1NM180A	2	B		1.0	GA	S	C	Q			CN-1569-10	C-13			PRF
1NM183	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-13			PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1NM184	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-13			PRF
1NM185A	2	B		1.0	GA	S	C	MT			CN-1569-10	C-13	2		PRF
1NM185A	2	B		1.0	GA	S	C	Q			CN-1569-10	C-13			PRF
1NM185A	2	B		1.0	GA	S	C	RP			CN-1569-10	C-13			PRF
1NM185A	2	B		1.0	GA	S	C	FS			CN-1569-10	C-13			PRF
1NM188	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-13			PRF
1NM189	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-13			PRF
1NM190A	2	B		0.5	GA	S	C	RP			CN-1569-10	C-14			PRF
1NM190A	2	B		0.5	GA	S	C	FS			CN-1569-10	C-14			PRF
1NM190A	2	B		0.5	GA	S	C	MT			CN-1569-10	C-14	2		PRF
1NM190A	2	B		0.5	GA	S	C	Q			CN-1569-10	C-14			PRF
1NM193	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-14			PRF
1NM194	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-14			PRF
1NM195A	2	B		0.5	GA	S	C	MT			CN-1569-10	E-08	2		PRF
1NM195A	2	B		0.5	GA	S	C	Q			CN-1569-10	E-08			PRF
1NM195A	2	B		0.5	GA	S	C	RP			CN-1569-10	E-08			PRF
1NM195A	2	B		0.5	GA	S	C	FS			CN-1569-10	E-08			PRF
1NM196	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	F-08			PRF
1NM197	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	F-08			PRF
1NM200A	2	B		0.5	GA	S	C	RP			CN-1569-10	E-08			PRF
1NM200A	2	B		0.5	GA	S	C	FS			CN-1569-10	E-08			PRF
1NM200A	2	B		0.5	GA	S	C	MT			CN-1569-10	E-08	2		PRF
1NM200A	2	B		0.5	GA	S	C	Q			CN-1569-10	E-08			PRF
1NM201	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	D-08			PRF
1NM202	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	D-08			PRF
1NM205	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	F-07			PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1NM206	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	F-07			PRF
1NM209	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-07			PRF
1NM210	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	E-07			PRF
1NM213	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-07			PRF
1NM214	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-07			PRF
1NM217B	2	B		1.0	GA	S	C	RP			CN-1569-10	C-08			PRF
1NM217B	2	B		1.0	GA	S	C	FS			CN-1569-10	C-08			PRF
1NM217B	2	B		1.0	GA	S	C	MT			CN-1569-10	C-08	2		PRF
1NM217B	2	B		1.0	GA	S	C	Q			CN-1569-10	C-08			PRF
1NM218	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-08			PRF
1NM219	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-08			PRF
1NM222B	2	B		1.0	GA	S	C	MT			CN-1569-10	C-09	2		PRF
1NM222B	2	B		1.0	GA	S	C	Q			CN-1569-10	C-09			PRF
1NM222B	2	B		1.0	GA	S	C	RP			CN-1569-10	C-09			PRF
1NM222B	2	B		1.0	GA	S	C	FS			CN-1569-10	C-09			PRF
1NM223	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-09			PRF
1NM224	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-09			PRF
1NM227B	2	B		1.0	GA	S	C	RP			CN-1569-10	C-09			PRF
1NM227B	2	B		1.0	GA	S	C	FS			CN-1569-10	C-09			PRF
1NM227B	2	B		1.0	GA	S	C	MT			CN-1569-10	C-09	2		PRF
1NM227B	2	B		1.0	GA	S	C	Q			CN-1569-10	C-09			PRF
1NM230	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-09			PRF
1NM231	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-09			PRF
1NM232B	2	B		1.0	GA	S	C	MT			CN-1569-10	C-10	2		PRF
1NM232B	2	B		1.0	GA	S	C	Q			CN-1569-10	C-10			PRF
1NM232B	2	B		1.0	GA	S	C	RP			CN-1569-10	C-10			PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1NM232B	2	B		1.0	GA	S	C	FS			CN-1569-10	C-10			PRF
1NM235	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-10			PRF
1NM236	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-10			PRF
1NM237B	2	B		1.0	GA	S	C	RP			CN-1569-10	C-11			PRF
1NM237B	2	B		1.0	GA	S	C	FS			CN-1569-10	C-11			PRF
1NM237B	2	B		1.0	GA	S	C	MT			CN-1569-10	C-11	2		PRF
1NM237B	2	B		1.0	GA	S	C	Q			CN-1569-10	C-11			PRF
1NM240	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-11			PRF
1NM241	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-11			PRF
1NM242B	2	B		0.5	GA	S	C	MT			CN-1569-10	C-11	2		PRF
1NM242B	2	B		0.5	GA	S	C	Q			CN-1569-10	C-11			PRF
1NM242B	2	B		0.5	GA	S	C	RP			CN-1569-10	C-11			PRF
1NM242B	2	B		0.5	GA	S	C	FS			CN-1569-10	C-11			PRF
1NM245	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-11			PRF
1NM246	2	C		0.5	CK	SA	-	CV	K02	RF	CN-1569-10	C-11			PRF
1RF389B	2	B		4.0	GA	EL	C	RP			CN-1599-22	D-07		T	PRF
1RF389B	2	B		4.0	GA	EL	C	MT			CN-1599-22	D-07	5	T	PRF
1RF389B	2	B		4.0	GA	EL	C	Q			CN-1599-22	D-07		T	PRF
1RF392	2	AC		4.0	CK	SA	-	LT			CN-1599-22	F-07			PRF
1RF392	2	AC		4.0	CK	SA	-	CV	L01	RF	CN-1599-22	F-07			PRF
1RF447B	2	B		4.0	GA	EL	C	RP			CN-1599-22	C-03		T	PRF
1RF447B	2	B		4.0	GA	EL	C	Q			CN-1599-22	C-03		T	PRF
1RF447B	2	B		4.0	GA	EL	C	MT			CN-1599-22	C-03	5	T	PRF
1RF448	2	AC		6.0	CK	SA	-	CV	L01	RF	CN-1599-22	E-03			PRF
1RF448	2	AC		6.0	CK	SA	-	LT			CN-1599-22	E-03			PRF
1RF457B	-	B		6.0	GA	EL	C	Q			CN-1599-22	C-02		T	PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATE- GORY	PAS- SIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	RELF REQS	TEST ALTER	FLOW DIAGRAM	COORD- INATES	VALVE TIME	ESF	RESP. PARTY
1RN437B	2	B		12.	BF	EL	Ø	RP			CN-1574-28	G-11		P	PRF
1RN437B	2	B		12.	BF	EL	Ø	Q	M03	CS	CN-1574-28	G-11		P	PRF
1RN438	2	AC		12.	CK	SA	-	CV	M02	RF	CN-1574-28	D-12			PRF
1RN438	2	AC		12.	CK	SA	-	LT			CN-1574-28	D-12			PRF
1RN484A	2	B		12.	GA	EL	Ø	Q	M04	CS	CN-1574-22	G-08		P	PRF
1RN484A	2	B		12.	GA	EL	Ø	MT	M04	CS	CN-1574-22	G-08	60	P	PRF
1RN484A	2	B		12.	GA	EL	Ø	RP			CN-1574-22	G-08		P	PRF
1RN485	2	AC	X	.75	RL/CK	SA	-	LT			CN-1574-22	G-08			PRF
1RN487B	2	B		6.0	GL	EL	Ø	RP			CN-1574-22	E-08		P	PRF
1RN487B	2	B		6.0	GL	EL	Ø	Q	M04	CS	CN-1574-22	E-08		P	PRF
1RN487B	2	B		6.0	GL	EL	Ø	MT	M04	CS	CN-1574-22	E-08	60	P	PRF

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1RN843B	3	B		42.	BF	EL	Ø	RP			CN-1574-11	D-05		P	PRF
1RN843B	3	B		42.	BF	EL	Ø	Q			CN-1574-11	D-05		P	PRF
1RN843B	3	B		42.	BF	EL	Ø	MT			CN-1574-11	D-05	60	P	PRF
1RN846A	3	B		10.	BF	EL	C	MT			CN-1574-21	J-02	60	P	PRF
1RN846A	3	B		10.	BF	EL	C	Q			CN-1574-21	J-02		P	PRF
1RN846A	3	B		10.	BF	EL	C	RP			CN-1574-21	J-02		P	PRF
1RN847A	3	B		10.	BF	EL	Ø	Q			CN-1574-21	J-01		P	PRF
1RN847A	3	B		10.	BF	EL	Ø	MT			CN-1574-21	J-01	60	P	PRF
1RN847A	3	B		10.	BF	EL	Ø	RP			CN-1574-21	J-01		P	PRF



## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1RN848B	3	B		10.	BF	EL	C	Q			CN-1574-25	J-02		P	PRF
1RN848B	3	B		10.	BF	EL	C	PP			CN-1574-25	J-02		P	PRF
1RN848B	3	B		10.	BF	EL	C	MT			CN-1574-25	J-02	60	P	PRF
1RN849B	3	B		10.	BF	EL	Ø	RP			CN-1574-25	J-01		P	PRF
1RN849B	3	B		10.	BF	EL	Ø	Q			CN-1574-25	J-01		P	PRF
1RN849B	3	B		10.	BF	EL	Ø	MT			CN-1574-25	J-01	60	P	PRF
1SA 02	2	B		4.0	GA	P	C	MT			CN-1593-11	G-04	15		PRF   7
1SA 02	2	B		4.0	GA	P	C	FS			CN-1593-11	G-04			PRF
1SA 02	2	B		4.0	GA	P	C	RP			CN-1593-11	G-04			PRF
1SA 02	2	B		4.0	GA	P	C	Q			CN-1593-11	G-04			PRF
1SA 05	2	B		4.0	GA	P	C	FS			CN-1593-11	H-04			PRF
1SA 05	2	B		4.0	GA	P	C	RP			CN-1593-11	H-04			PRF
1SA 05	2	B		4.0	GA	P	C	MT			CN-1593-11	H-04	15		PRF   7
1SA 05	2	B		4.0	GA	P	C	Q			CN-1593-11	H-04			PRF
1SM 01	2	B		34.	GL	P	Ø	FS	N01	Z	CN-1593-10	K-12		P	PRF
1SM 01	2	B		34.	GL	P	Ø	MT	N01	Z	CN-1593-10	K-12	5	P	PRF   1
1SM 01	2	B		34.	GL	P	Ø	Q	N01	Z	CN-1593-10	K-12		P	PRF
1SM 01	2	B		34.	GL	P	Ø	RP			CN-1593-10	K-12		P	PRF
1SM 03	2	B		34.	GL	P	Ø	RP			CN-1593-10	H-12		P	PRF
1SM 03	2	B		34.	GL	P	Ø	FS	N01	Z	CN-1593-10	H-12		P	PRF
1SM 03	2	B		34.	GL	P	Ø	MT	N01	Z	CN-1593-10	H-12	5	P	PRF   1
1SM 03	2	B		34.	GL	P	Ø	Q	N01	Z	CN-1593-10	H-12		P	PRF
1SM 05	2	B		34.	GL	P	Ø	MT	N01	Z	CN-1593-10	F-12	5	P	PRF   1
1SM 05	2	B		34.	GL	P	Ø	Q	N01	Z	CN-1593-10	F-12		P	PRF
1SM 05	2	B		34.	GL	P	Ø	FS	N01	Z	CN-1593-10	F-12		P	PRF
1SM 05	2	B		34.	GL	P	Ø	RP			CN-1593-10	F-12		P	PRF
1SA03	2	C		6.0	CK	SA	-	CV	BB1	RR	CN-1593-11	H-05			PRF
1SA06	2	C		6.0	CK	SA	-	CV	BB1	RR	CN-1593-11	H-05			P/M   8

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	GATE GORY	PAS-SIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORD-INATES	VALVE TIME	ESF	RESP. PARTY
1SV 21	2	C		6.0	RL	SA	-	SRV			CN-1593-10	D-09			MNT
1SV 22	2	C		6.0	RL	SA	-	SRV			CN-1593-10	C-09			MNT
1SV 23	2	C		6.0	RL	SA	-	SRV			CN-1593-10	D-10			MNT
1SV 24	2	C		6.0	RL	SA	-	SRV			CN-1593-10	C-10			MNT
1VB 83B	2	A		2.0	GA	EL	Ø	RP			CN-1605-32	I-07		T	PRF
1VB 83B	2	A		2.0	GA	EL	Ø	LT			CN-1605-32	I-07		T	PRF
1VB 83B	2	A		2.0	GA	EL	Ø	Q			CN-1605-32	I-07		T	PRF
1VB 83B	2	A		2.0	GA	EL	Ø	MT			CN-1605-32	I-07	10	T	PRF
1VB 85	2	AC		2.0	CK	SA	-	LT			CN-1605-32	H-07			PRF
1VB 85	2	AC		2.0	CK	SA	-	CV	Q01	RF	CN-1605-32	H-07			PRF
1VG 15	3	C		3.0	CK	SA	-	CV	W01	RR	CN-1609-40	F-02			O/P
1VG 16	3	C		3.0	CK	SA	-	CV	W01	RR	CN-1609-40	F-13			O/P
1VG 25	3	B		3.0	GA	S	C	Q	W02	RR	CN-1609-40	D-05			O/P
1VG 25	3	B		3.0	GA	S	C	MT	W02	RR	CN-1609-40	D-05	2		O/P
1VG 25	3	B		3.0	GA	S	C	RP	W02	RR	CN-1609-40	D-05			O/P
1VG 26	3	B		3.0	GA	S	C	MT	W02	RR	CN-1609-40	D-10	2		O/P
1VG 26	3	B		3.0	GA	S	C	RP	W02	RR	CN-1609-40	D-10			O/P
1VG 26	3	B		3.0	GA	S	C	Q	W02	RR	CN-1609-40	D-10			O/P
1VG 27	3	B		3.0	GA	S	C	RP	W02	RR	CN-1609-40	C-05			O/P
1VG 27	3	B		3.0	GA	S	C	Q	W02	RR	CN-1609-40	C-05			O/P
1VG 27	3	B		3.0	GA	S	C	MT	W02	RR	CN-1609-40	C-05	2		O/P
1VG 28	3	B		3.0	GA	S	C	MT	W02	RR	CN-1609-40	C-10	2		O/P
1VG 28	3	B		3.0	RP	S	C	RP	W02	RR	CN-1609-40	C-10			O/P
1VG 28	3	B		3.0	GA	S	C	Q	W02	RR	CN-1609-40	C-10			O/P
1VG 29	3	C		3.0	CK	SA	-	CV	W01	RR	CN-1609-40	D-06			O/P
1VG 30	3	C		3.0	CK	SA	-	CV	W01	RR	CN-1609-40	D-10			O/P
1VG5	3	C		1.0	CK	SA	-	CV			CN-1609-40	J-02			OPS
1VG6	3	C		1.0	CK	SA	-	CV			CN-1609-40	J-13			OPS
1VG7	3	C		1.0	CK	SA	-	CV			CN-1609-40	I-02			OPS
1VG8	3	C		1.0	CK	SA	-	CV			CN-1609-40	I-13			OPS
1VG49	3	C		1.0	CK	SA	-	CV			CN-1609-41	J-02			OPS
1VG50	3	C		1.0	CK	SA	-	CV			CN-1609-41	J-13			OPS
1VG51	3	C		1.0	CK	SA	-	CV			CN-1609-41	I-02			OPS
1VG52	3	C		1.0	CK	SA	-	CV			CN-1609-41	I-13			OPS

See Note  
#1 on Pg.  
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DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

DATA SORTED BY VALVE NAME

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	SELF REQ.	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1VG 31	3	C		3.0	CK	SA	-	CV	M01	RR	CN-1609-40	C-05			O/P
1VG 32	3	C		3.0	CK	SA	-	CV	M01	RR	CN-1609-40	C-10			O/P
1VG 59	3	C		3.0	CK	SA	-	CV	M01	RR	CN-1609-41	F-02			O/P
1VG 60	3	C		3.0	CK	SA	-	CV	M01	RR	CN-1609-41	F-13			O/P
1VG 69	3	B		3.0	GA	S	C	RP	M02	RR	CN-1609-41	D-05			O/P
1VG 69	3	B		3.0	GA	S	C	Q	M02	RR	CN-1609-41	D-05			O/P
1VG 69	3	B		3.0	GA	S	C	MT	M02	RR	CN-1609-41	D-05	2		O/P
1VG 70	3	B		3.0	GA	S	C	MT	M02	RR	CN-1609-41	D-10	2		O/P
1VG 70	3	B		3.0	GA	S	C	RP	M02	RR	CN-1609-41	D-10			O/P
1VG 70	3	B		3.0	GA	S	C	Q	M02	RR	CN-1609-41	D-10			O/P
1VG 71	3	B		3.0	GA	S	C	Q	M02	RR	CN-1609-41	C-05			O/P
1VG 71	3	B		3.0	GA	S	C	MT	M02	RR	CN-1609-41	C-05	2		O/P
1VG 71	3	B		3.0	GA	S	C	RP	M02	RR	CN-1609-41	C-05			O/P
1VG 72	3	B		3.0	GA	S	C	MT	M02	RR	CN-1609-41	C-10	2		O/P
1VG 72	3	B		3.0	GA	S	C	RP	M02	RR	CN-1609-41	C-10			O/P
1VG 72	3	B		3.0	GA	S	C	Q	M02	RR	CN-1609-41	C-10			O/P
1VG 73	3	C		3.0	CK	SA	-	CV	M01	RR	CN-1609-41	D-05			O/P
1VG 74	3	C		3.0	CK	SA	-	CV	M01	RR	CN-1609-41	D-10			O/P
1VG 75	3	C		3.0	CK	SA	-	CV	M01	RR	CN-1609-41	C-05			O/P
1VG 76	3	C		3.0	CK	SA	-	CV	M01	RR	CN-1609-41	C-10			O/P
1VI 77B	2	A		2.0	GL	EL	Ø	MT	R02	CS	CN-1605-11	I-05	10	P	PRF
1VI 77B	2	A		2.0	GL	EL	Ø	LT			CN-1605-11	I-05		P	PRF
1VI 77B	2	A		2.0	GL	EL	Ø	Q	R02	CS	CN-1605-11	I-05		P	PRF
1VI 77B	2	A		2.0	GL	EL	Ø	RP			CN-1605-11	I-05		P	PRF
1VI 79	2	AC		2.0	CK	SA	-	CV	R01	RF	CN-1605-11	I-07			PRF
1VI 79	2	AC		2.0	CK	SA	-	LT			CN-1605-11	I-07			PRF

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DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMPA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATE-GORY	PAS-SIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	RELF REQS	TEST ALTER	FLOW DIAGRAM	COORD-INATES	VALVE TIME	ESF	RESP. PARTY
MIMV6470	2	A	X	0.5	ND	M	C	LT			CN-1499.03-9.02	K-10			PRF
MIMV6471	2	A	X	0.5	ND	M	C	LT			CN-1499.03-9.02	K-10			PRF
MIMV6480	2	A	X	0.5	ND	M	C	LT			CN-1499.03-9.02	K-10			PRF
MIMV6481	2	A	X	0.5	ND	M	C	LT			CN-1499.03-9.02	K-10			PRF
MIMV6490	2	A	X	0.5	ND	M	C	LT			CN-1499.03-9.02	K-10			PRF
MIMV6491	2	A	X	0.5	ND	M	C	LT			CN-1499.03-9.02	K-10			PRF
MISV5231	2	A		0.5	GL	S	O	Q			CN-1499-MI19			T	PRF
MISV5231	2	A		0.5	GL	S	O	MT			CN-1499-MI19		2	T	PRF
MISV5231	2	A		0.5	GL	S	O	FS			CN-1499-MI19			T	PRF
MISV5231	2	A		0.5	GL	S	O	RP			CN-1499-MI19			T	PRF
MISV5231	2	A		0.5	GL	S	O	LT			CN-1499-MI19			T	PRF
MISV5230	2	A		0.5	GL	S	O	Q			CN-1499-MI19			T	PRF
MISV5230	2	A		0.5	GL	S	O	MT			CN-1499-MI19		2	T	PRF
MISV5230	2	A		0.5	GL	S	O	FS			CN-1499-MI19			T	PRF
MISV5230	2	A		0.5	GL	S	O	RP			CN-1499-MI19			T	PRF
MISV5230	2	A		0.5	GL	S	O	LT			CN-1499-MI19			T	PRF
MISV5232	2	A		0.5	GL	S	O	Q			CN-1499-MI19			T	PRF
MISV5232	2	A		0.5	GL	S	O	MT			CN-1499-MI19		2	T	PRF
MISV5232	2	A		0.5	GL	S	O	FS			CN-1499-MI19			T	PRF
MISV5232	2	A		0.5	GL	S	O	RP			CN-1499-MI19			T	PRF
MISV5232	2	A		0.5	GL	S	O	LT			CN-1499-MI19			T	PRF
MISV5233	2	A		0.5	GL	S	O	Q			CN-1499-MI19			T	PRF
MISV5233	2	A		0.5	GL	S	O	MT			CN-1499-MI19		2	T	PRF
MISV5233	2	A		0.5	GL	S	O	FS			CN-1499-MI19			T	PRF

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DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ.	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
MISV5233	2	A		0.5	GL	S	O	RP			CN-1499-MI19			T	PRF
MISV5233	2	A		0.5	GL	S	O	LT			CN-1499-MI19			T	PRF
IASV5080	2	A		0.5	GL	S	O	Q			CN-1499-IA1.01			S	PRF
IASV5080	2	A		0.5	GL	S	O	MT	Y01	RR	CN-1499-IA1.01		2	S	PRF
IASV5080	2	A		0.5	GL	S	O	FS			CN-1499-IA1.01			S	PRF
IASV5080	2	A		0.5	GL	S	O	RP	Y01	RR	CN-1499-IA1.01			S	PRF
IASV5080	2	A		0.5	GL	S	O	LT			CN-1499-IA1.01			S	PRF
IASV5160	2	A		0.5	GL	S	O	Q			CN-1499-IA1.01			S	PRF
IASV5160	2	A		0.5	GL	S	O	MT	Y01	RR	CN-1499-IA1.01		2	S	PRF
IASV5160	2	A		0.5	GL	S	O	FS			CN-1499-IA1.01			S	PRF
IASV5160	2	A		0.5	GL	S	O	RP	Y01	RR	CN-1499-IA1.01			S	PRF
IASV5160	2	A		0.5	GL	S	O	LT			CN-1499-IA1.01				PRF
IACV5340	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
IACV5340	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF
IACV5350	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
IACV5350	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF
IACV5360	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
IACV5360	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF
IACV5370	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
IACV5370	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF
IACV5380	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
IACV5380	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF
IACV5390	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
IACV5390	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF

40/60

# 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.



## 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  $\leq 2$  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  $\leq 2$  seconds. 8
- Testing Alternative: Trend Analyses will not be performed on valves with stroke times of  $\leq 2$  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 #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.

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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 #B2

DELETED

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RELIEF REQUEST #B3

DELETED

8

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 #H1

VALVE: 1NI12

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 1NI12 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.

| 8

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.

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RELIEF REQUEST #H3

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 #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 #11

VALVE: 1NS13, 1NS16, 1NS30, 1NS33, 1NS41, 1NS46

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 #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 #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.



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.

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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.