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TABLE OF ABBREVIATIONS

CLASSIFICATION

<u>Duke System Valve Class</u>	<u>Code Design Criteria</u>	<u>Designed for Seismic Loading</u>	<u>ANS Safety Class</u>
A	Class 1, ASME Section III, 1971	Yes	1
B	Class 2, ASME Section III, 1971	Yes	2
C	Class 3, ASME Section III, 1971	Yes	3
D	Class 2, ASME Section III, 1971	No	2
E	ANSI B31.1.0 (1967)	No	NNS
F	ANSI B31.1.0 (1967)	Yes	NNS
G	ANSI B31.1.0 (1967)	No	---
H	Duke Power Company Specification	No	---

LEGEND

LT	- Leak Test
MTO	- Movement Test Open
MTC	- Movement Test Closed
MTO,C	- Movement Test Open and Closed
Q	- Quarterly
CS	- Cold Shutdown
RF	- Refueling Outage
ST	- Stroke Time (cycle and time)
SP	- Setpoint
PC	- Procedure Check
CIV	- Containment Isolation Valve
PIV	- Pressure Isolation Valve
RR	- Relief Request
TS	- Technical Specification
CL	- Class
CAT	- Category
FS	- Fail Safe

Quarterly (Q)

Testing will be performed at least once per three (3) months.

Refueling Outage (RF)

Testing will be performed when the unit is shut down for refueling. Safety valves will be tested periodically per the testing schedule defined in ASME Subsection IWV-3510. Testing may be done while in No Mode as well as Modes 3, 4, 5, and 6.

Refueling Outage (RF*)

Valve will normally be tested during refueling outages, not to exceed 24 months per Appendix J to 10CFR50.

Refueling Outage (RF#)

Valve will normally be tested on a routine basis via a sample valve disassembly program (1 valve from a group of identical valves under similar system conditions). Failure of one valve of the group during a refueling outage will result in all remaining valves of the group being tested during that outage.

Setpoint (SP)

Valve will be tested to verify that it will relieve pressure at its specified setpoint. Testing will be performed per the requirements of IWV-3510.

Fail Safe (FS)

Valve will be tested to verify it will reposition to its design safe position upon loss of control air per IWV-3415.

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 PUMP AND VALVE INSERVICE
 TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** STEAM GENERATOR ELLOWDOWN RECYCLE									
2BB-0001B	B	2580-1.0	H-02	B	ST-Q	-	-	-	-
2BB-0002B	B	2580-1.0	H-04	B	ST-Q	-	-	-	-
2BB-0003B	B	2580-1.0	H-12	B	ST-Q	-	-	-	-
2BB-0004B	B	2580-1.0	H-10	B	ST-Q	-	-	-	-
2BB-0005A	B	2580-1.0	F-02	B	ST-Q	-	-	-	-
2BB-0006A	B	2580-1.0	F-04	B	ST-Q	-	-	-	-
2BB-0007A	B	2580-1.0	F-12	B	ST-Q	-	-	-	-
2LB-0007A	B	2580-1.0	F-10	B	ST-Q	-	-	-	-

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PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** AUXILIARY FEEDWATER									
2CA-0007AC	C	2592-1.1	B-10	B	ST-Q	-	-	-	-
2CA-0008	C	2592-1.1	B-11	C	MTC-Q	-	CA2	RF#	10
2CA-0009B	C	2592-1.1	C-05	B	ST-Q	-	-	-	-
2CA-0010	C	2592-1.1	C-05	C	MTC-Q	-	CA2	RF#	10
2CA-0011A	C	2592-1.1	B-04	B	ST-Q	-	-	-	-
2CA-0012	C	2592-1.1	B-03	C	MTC-Q	-	CA2	RF#	10
2CA-0015A	C	2592-1.1	D-03	B	ST-Q	-	-	-	-
2CA-0018B	C	2592-1.1	D-03	B	ST-Q	-	-	-	-
2CA-0020AB	C	2592-1.1	I-10	AC	ST-Q	LT	-	-	11
2CA-0022	C	2592-1.1	I-10	C	MTC-Q	-	-	-	-
2CA-0026	C	2592-1.1	I-04	C	MTC-Q	-	-	-	-
2CA-0027A	C	2592-1.1	J-05	AC	ST-Q	LT	-	-	11
2CA-0031	C	2592-1.1	I-07	C	MTC-Q	-	-	-	-
2CA-0032B	C	2592-1.1	I-08	AC	ST-Q	LT	-	-	11
2CA-0036AB	C	2592-1.0	L-10	B	ST-Q	-	-	-	-
2CA-0037	B	2592-1.0	K-14	C	MTC,C-Q	-	-	CS-CA1	-
2CA-0038B	B	2592-1.0	J-14	B	ST-Q	-	-	-	-
2CA-0040B	C	2592-1.0	G-14	B	ST-Q	-	-	2 SFC	11
2CA-0041	B	2592-1.0	H-14	C	MTC,C-Q	-	-	CS-CA1	-
2CA-0042B	B	2592-1.0	I-14	B	ST-Q	-	-	-	-
2CA-0044B	C	2592-1.0	C-11	B	ST-Q	-	-	2 SEC	11
2CA-0045	B	2592-1.0	C-09	C	MTC,C-Q	-	-	CS-CA1	-
2CA-0046B	B	2592-1.0	D-08	B	ST-Q	-	-	-	-
2CA-0048AB	C	2592-1.0	K-08	B	ST-Q	-	-	-	-
2CA-0049	B	2592-1.0	H-08	C	MTC,C-Q	-	-	CS-CA1	-
2CA-0050B	B	2592-1.0	G-08	B	ST-Q	-	-	-	-
2CA-0052AB	C	2592-1.0	K-07	B	ST-Q	-	-	-	-
2CA-0053	B	2592-1.0	H-07	C	MTC,C-Q	-	-	CS-CA1	-
2CA-0054AC	B	2592-1.0	G-07	B	ST-Q	-	-	-	-
2CA-0056A	C	2592-1.0	C-04	B	ST-Q	-	-	-	-
2CA-0057	R	2592-1.0	C-06	C	MTC,C-Q	-	-	CS-CA1	-
2CA-0058A	B	2592-1.0	D-07	B	ST-Q	-	-	-	-
2CA-0060A	C	2592-1.0	G-01	B	ST-Q	-	-	-	-
2CA-0061	B	2592-1.0	H-01	C	MTC,C-Q	-	-	CS-CA1	-
2CA-0062A	B	2592-1.0	I-01	B	ST-Q	-	-	-	-
2CA-0064AB	C	2592-1.0	L-04	B	ST-Q	-	-	-	-
2CA-0065	B	2592-1.0	K-01	C	MTC,C-Q	-	-	CS-CA1	-
2CA-0066AC	B	2592-1.0	J-01	B	ST-Q	-	-	-	-
2CA-0086A	C	2592-1.1	C-14	B	ST-Q	-	-	-	-
2CA-0116B	C	2592-1.1	G-14	B	ST-Q	-	-	-	-
2CA-0161C								DELETED	11
2CA-0162C								DELETED	11
2CA-0165	C	2592-1.1	C-14	C	MTC,C-Q	-	CA1	RF#	11
2CA-0166	C	2592-1.1	G-14	C	MTC,C-Q	-	CA1	RF#	11

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PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** FEEDWATER									
2CF-0017AB	F	2591-1.1	K-03	B	ST-Q	-	-	CS-CF2	-
2CF-0020AB	F	2591-1.1	K-06	B	ST-Q	-	-	CS-CF2	-
2CF-0023AB	F	2591-1.1	K-09	B	ST-Q	-	-	CS-CF2	-
2CF-0026AB	B	2591-1.1	H-03	B	ST-Q	-	-	CS-CF1	-
2CF-0028AB	B	2591-1.1	H-06	B	ST-Q	-	-	CS-CF1	-
2CF-0030AB	B	2591-1.1	H-09	B	ST-Q	-	-	CS-CF1	-
2CF-0032AB	F	2591-1.1	K-13	B	ST-Q	-	-	CS-CF2	-
2CF-0035AB	B	2591-1.1	H-13	B	ST-Q	-	-	CS-CF1	-
2CF-0104AB	F	2591-1.1	K-12	B	ST-Q	-	-	CS-CF4	9
2CF-0105AB	F	2591-1.1	K-09	B	ST-Q	-	-	CS-CF4	9
2CF-0106AB	F	2591-1.1	K-05	B	ST-Q	-	-	CS-CF4	9
2CF-0107AB	F	2591-1.1	K-02	B	ST-Q	-	-	CS-CF4	8
2CF-0126B	B	2591-1.1	H-11	B	ST-Q	-	-	CS-CF3	8
2CF-0127B	B	2591-1.1	H-08	B	ST-Q	-	-	CS-CF3	8
2CF-0128B	B	2591-1.1	H-04	B	ST-Q	-	-	CS-CF3	8
2CF-0129B	B	2591-1.1	H-01	B	ST-Q	-	-	CS-CF3	8
2CF-0134A	B	2591-1.1	H-12	B	ST-Q	-	-	-	8
2CF-0135A	B	2591-1.1	G-09	B	ST-Q	-	-	-	8
2CF-0136A	B	2591-1.1	G-05	B	ST-Q	-	-	-	8
2CF-0137A	B	2591-1.1	G-02	B	ST-Q	-	-	-	8
2CF-0151B	B	2591-1.1	G-12	B	ST-Q	-	-	-	-
2CF-0152	B	2591-1.1	F-12	C	MTC-Q	-	-	CS-CF5	8
2CF-0153B	B	2591-1.1	G-11	B	ST-Q	-	-	-	-
2CF-0154	B	2591-1.1	F-11	C	MTC-Q	-	-	CS-CF5	8
2CF-0155B	B	2591-1.1	G-11	B	ST-Q	-	-	-	-
2CF-0156	B	2591-1.1	F-10	C	MTC-Q	-	-	CS-CF5	8
2CF-0157B	B	2591-1.1	G-12	B	ST-Q	-	-	-	-
2CF-0158	B	2591-1.1	F-12	C	MTC-Q	-	-	CS-CF5	-

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 PUMP AND VALVE INSERVICE
 TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** DIESEL GENERATOR ENGINE FUEL OIL									
2FD-0092	C	2609-3.0	E-13	C	MTO,C-Q	-	-	-	11
2FD-0093	C	2609-3.0	J-14	C	MTO,C-Q	-	-	-	11
2FD-0104	C	2609-3.1	E-13	C	MTO,C-Q	-	-	-	11
2FD-0105	C	2609-3.1	J-14	C	MTO,C-Q	-	-	-	11

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PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** REFUELING WATER									
2FW-0001A	B	2571-1.0	E-11	B	ST-Q	-	-	-	-
2FW-0004	B	2571-1.0	D-08	A	LT-RF	-	-	PASSIVE	-
2FW-0005	B	2571-1.0	C-07	AC	LT-RF	-	-	PASSIVE	-
2FW-0011	B	2571-1.0	C-02	A	LT-RF	-	-	PASSIVE	-
2FW-0013	B	2571-1.0	D-02	A	LT-RF	-	-	PASSIVE	-
2FW-0027A	B	2571-1.0	C-12	B	ST-Q	-	-	CS-FW1	-
2FW-0028	B	2571-1.0	B-11	C	MTO,C-Q	-	-	CS-FW2	10
2FW-0032B	B	2571-1.0	E-11	B	ST-Q	-	-	-	-
2FW-0033A	B	2571-1.0	F-11	B	ST-Q	-	-	-	-
2FW-0049B	B	2571-1.0	F-10	B	ST-Q	-	-	-	-
2FW-0052	E	2571-1.0	I-05	C	MTO-Q	-	-	-	-
2FW-0063	B	2571-1.0	C-03	AC	LT-RF	-	-	PASSIVE	-

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TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** AIRLOCK									
21A-5080	B	2499-IA1	N/A	A	ST-Q	LT-RF	-	2 SEC	11
21A-5160	B	2499-IA1	N/A	A	ST-Q	LT-RF	-	2 SEC	11
21A-5340	B	2499-IA1	N/A	AC	LT-RF	-	-	-	11
21A-5350	B	2499-IA1	N/A	AC	LT-RF	-	-	-	11
21A-5360	C	2499-IA1	N/A	AC	LT-RF	-	IA1	-	11
21A-5370	C	2499-IA1	N/A	AC	LT-RF	-	IA1	-	11
21A-5380	C	2499-IA1	N/A	AC	LT-RF	-	IA1	-	11
21A-5390	C	2499-IA1	N/A	AC	LT-RF	-	IA1	-	11

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PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TYPE	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** COMPONENT COOLING										
2KC-0001A	C	2573-1.0	C-07	B	ST-Q	-	-	-		-
2KC-0002B	C	2573-1.0	C-08	B	ST-Q	-	-	-		-
2KC-0003A	C	2573-1.0	C-07	B	ST-Q	-	-	-		-
2KC-0005	C	2573-1.0	F-04	C	MTO-Q	-	-	-		-
2KC-0008	C	2573-1.0	F-04	C	MTO-Q	-	-	-		-
2KC-0011	C	2573-1.0	F-11	C	MTO-Q	-	-	-		-
2KC-0014	C	2573-1.0	F-11	C	MTO-Q	-	-	-		-
2KC-0018B	C	2573-1.0	C-08	B	ST-Q	-	-	-		-
2KC-0047	B	2573-4.0	L-07	AC	MTC-Q	LT-RF		KC5	MT-RF	-
2KC-0050A	C	2573-1.0	K-07	B	ST-Q	-	-	-		-
2KC-0051A	C	2573-1.0	J-05	B	ST-Q	-	-	-		-
2KC-0053B	C	2573-1.0	K-08	B	ST-Q	-	-	-		-
2KC-0054B	C	2573-1.0	J-10	B	ST-Q	-	-	-		-
2KC-0056A	C	2573-1.1	E-02	B	ST-Q	-	-	-		-
2KC-0057A	C	2573-1.1	D-06	B	ST-Q	-	-	-		-
2KC-0081B	C	2573-1.1	E-13	B	ST-Q	-	-	-		-
2KC-0082B	C	2573-1.1	D-09	B	ST-Q	-	-	-		-
2KC-0228B	C	2573-1.0	K-08	B	ST-Q	-	-	-		-
2KC-0230A	C	2573-1.0	K-07	B	ST-Q	-	-	-		-
2KC-0279	B	2573-3.1	K-04	AC	MTC-Q	LT-RF		KC3	MT-RF	-
2KC-0280	B	2573-3.1	D-01	AC	MTC-Q	LT-RF		KC1	MT-RF	-
2KC-0305B	B	2573-3.1	D-14	B	ST-Q	-	-	-		-
2KC-0315B	B	2573-3.1	L-13	B	ST-Q	-	-	-		-
2KC-0320A	B	2573-3.1	C-10	A	ST-Q	LT-RF		-	CS-KC4	-
2KC-0322	B	2573-3.1	C-09	AC	MTC-Q	LT-RF		KC2	MT-RF	-
2KC-0332B	B	2573-3.1	D-01	A	ST-Q	LT-RF		-	CS-KC3	-
2KC-0333A	B	2573-3.1	G-01	A	ST-Q	LT-RF		-	CS-KC3	-
2KC-0338B	B	2573-3.1	D-12	A	ST-Q	LT-RF		-	CS-KC2	-
2KC-0340	B	2573-3.1	E-12	AC	MTC-Q	LT-RF		KC4	MT-RF	11
2KC-0424B	B	2573-3.1	L-04	A	ST-Q	LT-RF		-	CS-KC1	-
2KC-0425A	B	2573-3.1	L-06	A	ST-Q	LT-RF		-	CS-KC1	-
2KC-0429B	B	2573-4.0	K-07	A	ST-Q	LT-RF		-	-	-
2KC-0430A	B	2573-4.0	K-08	A	ST-Q	LT-RF		-	-	-
2KC-0972	C	2573-1.1	K-08	C	SP-RF	-		-	15 PSIG	-

Duke Power Company
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PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** DIESEL GENERATOR COOLING WATER									
2KD-0009	C	2609-1.0	E-14	B	FS-Q	-	-	-	11
2KD-0029	C	2609-1.1	E-14	B	FS-Q	-	-	-	11

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 TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** RADIATION MONITORING									
2MI-5580	B	2499-MI7	N/A	A	ST-Q	LT-RF	-	2 SEC	11
2MI-5581	B	2499-MI7	N/A	A	ST-Q	LT-RF	-	2 SEC	11
2MI-5582	B	2499-MI7	N/A	A	ST-Q	LT-RF	-	2 SEC	11
2MI-5583	B	2499-MI7	N/A	A	ST-Q	LT-RF	-	2 SEC	11

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 PUMP AND VALVE INSERVICE
 TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** BORON RECYCLE									
2NB-0260B	B	2556-3.0	G-05	A	ST-Q	LT-RF	-	-	-
2NB-0262	B	2556-3.0	G-03	AC	MTC-Q	LT-RF	NB1	MT-RF	-

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PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** REACTOR COOLANT									
2NC-0001	A	2553-2.0	K-03	C	S' -3Y	-	-	2485 PSIG	-
2NC-0002	A	2553-2.0	K-04	C	Sp-3Y	-	-	2485 PSIG	-
2NC-0003	A	2553-2.0	K-05	C	SP-3Y	-	-	2485 PSIG	-
2NC-0031B	A	2553-2.0	F-05	B	ST-Q	-	-	-	-
2NC-0032B	A	2553-2.0	G-05	B	ST-Q	-	-	CS-NC1, 2 SEC CLOSE	11
2NC-0033A	A	2553-2.0	F-03	B	ST-Q	-	-	-	-
2NC-0034A	A	2553-2.0	G-03	B	ST-Q	-	-	CS-NC1, 2 SEC CLOSE	11
2NC-0035B	A	2553-2.0	F-02	B	ST-Q	-	-	-	-
2NC-0036B	A	2553-2.0	G-02	B	ST-Q	-	-	CS-NC1, 2 SEC CLOSE	11
2NC-0053B	B	2553-2.1	H-10	A	ST-Q	LT-RF	-	-	-
2NC-0054A	B	2553-2.1	H-09	A	ST-Q	LT-RF	-	-	-
2NC-0056B	B	2553-2.1	D-14	A	ST-Q	LT-RF	-	-	-
2NC-0057	B	2553-2.1	F-13	AC	LT-RF	-	-	PASSIVE	-
2NC-0141	B	2553-4.0	C-07	A	PC-Q	LT-RF	-	PASSIVE	-
2NC-0142	B	2553-4.0	B-06	A	PC-Q	LT-RF	-	PASSIVE	-
2NC-0195B	B	2553-4.0	I-08	A	LT-RF	-	-	PASSIVE	-
2NC-0196A	B	2553-4.0	H-08	A	LT-RF	-	-	PASSIVE	-
2NC-0259	B	2553-4.0	H-08	AC	MTC-Q	LT-RF	NC1	MT-RF*	-
2NC-0261	B	2553-4.0	C-08	AC	MTC-Q	LT-RF	NC1	MT-RF*	8
2NC-0272AC	A	2553-2.1	J-09	B	ST-Q	-	-	CS-NC2, 2 SEC	11
2NC-0273AC	A	2553-2.1	J-10	B	ST-Q	-	-	CS-NC2, 2 SEC	11
2NC-0274B	A	2553-2.1	I-09	B	ST-Q	-	-	CS-NC2, 2 SEC	11
2NC-0275B	A	2553-2.1	I-10	B	ST-Q	-	-	CS-NC2, 2 SEC	11

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** RESIDUAL HEAT REMOVAL									
2ND-0001B	A	256i-1.0	I-13	A	ST-Q	LT-TS	-	CS-ND1 PIV	-
2ND-0002AC	A	256i-1.0	H-13	A	ST-Q	LT-TS	-	CS-ND1 PIV	-
2ND-0004B	B	256i-1.0	E-12	B	ST-Q	-	-	-	-
2ND-0008	B	256i-1.0	D-08	C	MTO,C-Q	-	-	CS-ND6	10
2ND-0014	B	256i-1.0	D-03	B	ST-Q	-	-	-	-
2ND-0015B	B	256i-1.0	E-03	B	ST-Q	-	-	CS-ND3	-
2ND-0019A	B	256i-1.0	H-12	B	ST-Q	-	-	-	-
2ND-0023	B	256i-1.0	J-08	C	MTO,C-Q	-	-	CS-ND6	10
2ND-0029A	B	256i-1.0	J-03	B	ST-Q	-	-	-	-
2ND-0030A	B	256i-1.0	I-03	B	ST-Q	-	-	CS-ND3	-
2ND-0058A	B	256i-1.0	K-03	B	ST-Q	-	-	CS-ND2	-
2ND-0067B	B	256i-1.0	B-09	B	ST-Q	-	-	-	-
2ND-0068A	B	256i-1.0	L-09	B	ST-Q	-	-	-	-
2ND-0070	B	256i-1.0	K-03	C	MTO,C-Q	-	-	CS-ND4	10
2ND-0071	B	256i-1.0	C-04	C	MTO,C-Q	-	-	CS-ND5	10

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** ICE CONDENSOR REFRIGATION									
2NF-0228A	B	2558-4.0	K-13	A	ST-Q	LT-RF	NF2	LT per TS	-
2NF-0229	B	2558-4.0	F-13	AC	MTC-Q	LT-RF	NF1	MT-RF*	-
2NF-0233B	B	2558-4.0	K-12	A	ST-Q	LT-RF	NF2	LT per TS	-
2NF-0234A	B	2558-4.0	K-13	A	ST-Q	LT-RF	NF2	LT per TS	-

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** SAFETY INJECTION									
2NI-0009A	B	2562-1.0	H-12	B	ST-Q	-	-	CS-NI1	-
2NI-0010B	B	2562-1.0	G-12	B	ST-Q	-	-	CS-NI1	-
2NI-0012	B	2562-1.0	G-09	C	MTO-Q	-	-	CS-NI14	10
2NI-0015	A	2562-1.0	K-07	C	MTO-Q	-	-	CS-NI13	10
2NI-0017	A	2562-1.0	I-04	C	MTO-Q	-	-	CS-NI13	10
2NI-0019	A	2562-1.0	F-04	C	MTO-Q	-	-	CS-NI13	10
2NI-0021	A	2562-1.0	C-07	C	MTO-Q	-	-	CS-NI13	10
2NI-0047A	B	2562-2.0	K-05	A	ST-Q	LT-RF	-	-	-
2NI-0048	B	2562-2.0	K-03	AC	MTC-Q	LT-RF	NI3	MT-RF*	-
2NI-0054A								DELETED	9
2NI-0059	A	2562-2.0	D-13	AC	MTO,C-Q	LT-TS	NI4	PIV RF#	-
2NI-0060	A	2562-2.0	D-14	AC	MTO,C-Q	LT-TS	NI6	PIV RF#	-
2NI-0065B								DELETED	9
2NI-0070	A	2562-2.0	H-13	AC	MTO,C-Q	LT-TS	NI4	PIV RF#	-
2NI-0071	A	2562-2.0	H-14	AC	MTO,C-Q	LT-TS	NI6	PIV RF#	-
2NI-0076A								DELETED	9
2NI-0081	A	2562-2.1	C-03	AC	MTO,C-Q	LT-TS	NI4	PIV RF#	-
2NI-0082	A	2562-2.1	C-03	AC	MTO,C-Q	LT-TS	NI6	PIV RF#	-
2NI-0088B								DELETED	9
2NI-0093	A	2562-2.1	C-08	AC	MTC,C-Q	LT-TS	NI4	PIV RF#	-
2NI-0094	A	2562-2.1	C-08	AC	MTC,C-Q	LT-TS	NI6	PIV RF#	-
2NI-0095A	B	2562-2.1	F-11	A	ST-Q	LT-RF	-	-	-
2NI-0096B	B	2562-2.1	E-13	A	ST-Q	LT-RF	-	-	-
2NI-0100B	B	2562-3.0	F-13	B	ST-Q	-	-	CS-NI3	-
2NI-0101	B	2562-3.0	F-13	C	MTO,C-Q	-	-	CS-NI15	10
2NI-0103A	B	2562-3.0	I-14	B	ST-Q	-	-	-	-
2NI-0114	B	2562-3.0	I-09	C	MTO-Q	-	-	-	-
2NI-0115B	B	2562-3.0	H-09	B	ST-Q	-	-	-	-
2NI-0116	B	2562-3.0	J-09	C	MTO,C	-	-	CS-NI16	10
2NI-0118A	B	2562-3.0	H-07	B	ST-Q	-	-	-	-
2NI-0120B	B	2562-3.0	J-07	A	ST-Q	LT-RF	-	-	-
2NI-0121A	B	2562-3.0	J-06	B	ST-Q	-	-	CS-NI5	-
2NI-0124	A	2562-3.0	J-03	AC	MTO,C-Q	LT-TS	-	PIV CS-NI17	10
2NI-0125	A	2562-3.0	I-03	AC	MTO,C-Q	LT-TS	-	PIV CS-NI20	10
2NI-0126	A	2562-3.0	J-02	AC	MTO,C-Q	LT-TS	-	PIV CS-NI20	10
2NI-0128	A	2562-3.0	I-04	AC	MTO,C-Q	LT-TS	-	PIV CS-NI17	10
2NI-0129	A	2562-3.0	I-03	AC	MTO,C-Q	LT-TS	-	PIV CS-NI20	10
2NI-0134	A	2562-3.0	H-04	AC	MTO,C-Q	LT-TS	-	PIV CS-NI20	10
2NI-0135B	B	2562-3.0	E-14	B	ST-Q	-	-	-	-
2NI-0136B	B	2562-3.0	C-14	B	ST-Q	-	-	CS-NI21	11
2NI-0143	B	2562-3.0	F-09	C	MTO,C-Q	-	-	-	-
2NI-0144B	B	2562-3.0	G-09	B	ST-Q	-	-	-	-
2NI-0147A	B	2562-3.0	G-11	B	ST-Q	-	-	CS-NI4	-
2NI-0148	B	2562-3.0	D-09	C	MTO,C	-	-	CS-NI16	10
2NI-0150B	B	2562-3.0	E-07	B	ST-Q	-	-	-	-

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VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
2NI-0152B	B	2562-3.0	D-06	B	ST-Q	-	-	CS-NI6	-
2NI-0156	A	2562-3.0	D-03	AC	MTO,C-Q	LT-TS	-	PIV CS-NI17	10
2NI-0157	A	2562-3.0	D-02	AC	MTO,C-Q	LT-TS	-	PIV CS-NI17	10
2NI-0159	A	2562-3.0	B-04	AC	MTO,C-Q	LT-TS	-	PIV CS-NI17	10
2NI-0160	A	2562-3.0	B-03	AC	MTO,C-Q	LT-TS	-	PIV CS-NI17	10
2NI-0162A	B	2562-3.1	K-11	B	ST-Q	-	-	CS-NI7	-
2NI-0165	A	2562-3.1	J-03	AC	MTO,C-Q	LT-TS	-	PIV CS-NI18	10
2NI-0167	A	2562-3.1	J-05	AC	MTO,C-Q	LT-TS	-	PIV CS-NI18	10
2NI-0169	A	2562-3.1	J-06	AC	MTO,C-Q	LT-TS	-	PIV CS-NI18	10
2NI-0171	A	2562-3.1	J-07	AC	MTO,C-Q	LT-TS	-	PIV CS-NI18	10
2NI-0173A	B	2562-3.1	I-12	B	ST-Q	-	-	CS-NI8	-
2NI-0175	A	2562-3.1	I-08	AC	MTO,C-Q	LT-TS	-	PIV CS-NI19	10
2NI-0176	A	2562-3.1	H-08	AC	MTO,C-Q	LT-TS	-	PIV CS-NI19	10
2NI-0178B	B	2562-3.1	F-12	B	ST-Q	-	-	CS-NI9	-
2NI-0180	A	2562-3.1	F-07	AC	MTO,C-Q	LT-TS	-	PIV CS-NI19	10
2NI-0181	A	2562-3.1	D-08	AC	MTO,C-Q	LT-TS	-	PIV CS-NI19	10
2NI-0183B	B	2562-3.0	C-03	B	ST-Q	-	-	CS-NI10	-
2NI-0184B	B	2562-3.1	D-12	B	ST-Q	-	-	CS-NI11	-
2NI-0185A	B	2562-3.1	B-12	B	ST-Q	-	-	CS-NI11	-
2NI-0332A	B	2562-3.0	L-14	B	ST-Q	-	-	-	-
2NI-0333B	B	2562-3.0	L-12	B	ST-Q	-	-	-	-
2NI-0334B	B	2562-3.0	L-11	B	ST-Q	-	-	-	-
2NI-0347	A	2562-1.0	I-04	C	MTO-Q	-	-	CS-NI13	10
2NI-0348	A	2562-1.0	F-05	C	MTO-Q	-	-	CS-NI13	10
2NI-0349	A	2562-1.0	C-07	C	MTO-Q	-	-	CS-NI13	10
2NI-0354	A	2562-1.0	K-07	C	MTO-Q	-	-	CS-NI13	10
2NI-0430A	B	2562-2.0	F-04	B	ST-Q	-	-	CS-NI2	-
2NI-0431B	B	2562-2.0	J-04	B	ST-Q	-	-	CS-NI2	-
2NI-0436	B	2562-2.1	G-11	AC	LT-RF	MTC-Q	NI5	NT-RF*	-

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TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** NUCLEAR SAMPLING									
2NM-0003AC	B	2572-1.0	K-03	A	ST-Q	LT-RF	-	-	-
2NM-0006AC	B	2572-1.0	J-03	A	ST-Q	-	-	-	-
2NM-0007B	B	2572-1.0	K-06	A	ST-Q	LT-RF	-	-	-
2NM-0022AC	B	2572-1.0	J-12	A	ST-Q	LT-RF	-	-	-
2NM-0025AC	B	2572-1.0	K-12	A	ST-Q	LT-RF	-	-	-
2NM-0026B	B	2572-1.0	K-09	A	ST-Q	-	-	-	-
2NM-0069	B	2572-1.1	G-09	A	LT-RF	-	-	PASSIVE	-
2NM-0072B	B	2572-1.1	I-06	A	ST-Q	LT-RF	-	-	-
2NM-0075B	B	2572-1.1	I-08	A	ST-Q	LT-RF	-	-	-
2NM-0078B	B	2572-1.1	I-10	A	ST-Q	LT-RF	-	-	-
2NM-0081B	B	2572-1.1	I-11	A	ST-Q	LT-RF	-	-	-
2NM-0082A	B	2572-1.1	E-09	A	ST-Q	LT-RF	-	-	-
2NM-0187A	B	2572-3.0	K-01	B	ST-Q	-	-	-	-
2NM-0190A	B	2572-3.0	K-02	B	ST-Q	-	-	-	-
2NM-0191B	B	2572-3.0	I-02	B	ST-Q	-	-	-	-
2NM-0197B	B	2572-3.0	K-05	B	ST-Q	-	-	-	-
2NM-0200B	B	2572-3.0	K-06	B	ST-Q	-	-	-	-
2NM-0201A	B	2572-3.0	I-06	B	ST-Q	-	-	-	-
2NM-0207A	B	2572-3.0	K-08	B	ST-Q	-	-	-	-
2NM-0210A	B	2572-3.0	K-09	B	ST-Q	-	-	-	-
2NM-0211B	B	2572-3.0	I-09	B	ST-Q	-	-	-	-
2NM-0217B	B	2572-3.0	K-11	B	ST-Q	-	-	-	-
2NM-0220B	B	2572-3.0	K-12	B	ST-Q	-	-	-	-
2NM-0221A	B	2572-3.0	I-12	B	ST-Q	-	-	-	-
2NM-0420	B	2572-1.0	J-03	AC	MTC-Q	LT-RF	NM1	MT-RF*	-
2NM-0421	B	2572-1.0	J-12	AC	MTC-Q	LT-RF	NM1	MT-RF*	-

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TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** CONTAINMENT SPRAY									
2NS-0001B	B	2563-1.0	C-13	B	ST-Q	-	-	-	-
2NS-0003B	B	2563-1.0	B-13	B	ST-Q	-	-	-	-
2NS-0004	B	2563-1.0	C-12	C	MTO,C-Q	-	NS2	RF#	11
2NS-0012B	B	2563-1.0	C-04	B	ST-Q	-	-	-	-
2NS-0013	B	2563-1.0	B-02	C	MTO-Q	-	NS1	RF#	-
2NS-0015B	B	2563-1.0	D-04	B	ST-Q	-	-	-	-
2NS-0016	B	2563-1.0	D-02	C	MTO-Q	-	NS1	RF#	-
2NS-0018A	B	2563-1.0	G-13	B	ST-Q	-	-	-	-
2NS-0020A	B	2563-1.0	F-13	B	ST-Q	-	-	-	-
2NS-0021	B	2563-1.0	F-12	C	MTO,C-Q	-	NS2	RF#	11
2NS-0029A	B	2563-1.0	F-04	B	ST-Q	-	-	-	-
2NS-0030	B	2563-1.0	F-02	C	MTO-Q	-	NS1	RF#	-
2NS-0032A	B	2563-1.0	H-04	B	ST-Q	-	-	-	-
2NS-0033	B	2563-1.0	H-02	C	MTO-Q	-	NS1	RF#	-
2NS-0038B	B	2563-1.0	J-05	B	ST-Q	-	-	CS-NS1	11
2NS-0041	B	2563-1.0	J-03	C	MTO-Q	-	NS1	RF#	-
2NS-0043A	B	2563-1.0	K-05	B	ST-Q	-	-	CS-NS1	11
2NS-0046	B	2576-1.0	K-03	C	MTO-Q	-	NS1	RF#	-
2NS-5550B	B	2499-NS8	N/A	A	ST-Q	LT-RF	-	2 SEC	11
2NS-5551A	B	2499-NS8	N/A	A	ST-Q	LT-RF	-	2 SEC	11

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VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TFST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** CHEMICAL AND VOLUME CONTROL									
2NV-0001A								DELETED	11
2NV-0002A								DELETED	11
2NV-0007B	B	2554-1.2	J-11	E	ST-Q	-	-	CS-NV2	-
2NV-0021A	A	2554-1.2	E-03	B	ST-Q	-	-	CS-NV4, 2 SEC	11
2NV-0022								DELETED	11
2NV-0024B	A	2554-1.2	D-06	B	ST-Q	-	-	2 SEC	11
2NV-0025B	A	2554-1.2	D-07	B	ST-Q	-	-	2 SEC	11
2NV-0035A	B	2554-1.2	K-07	B	ST-Q	-	-	-	11
2NV-0094AC	B	2554-1.1	J-13	B	ST-Q	-	-	CS-NV1	-
2NV-0095B	B	2554-1.1	H-13	B	ST-Q	-	-	CS-NV1	-
2NV-0141A	B	2554-2.0	B-08	B	ST-Q	-	-	CS-NV7	-
2NV-0142B	B	2554-2.0	B-07	B	ST-Q	-	-	CS-NV7	-
2NV-0150B	B	2554-2.0	F-02	B	ST-Q	-	-	CS-NV12	8
2NV-0151A	B	2554-2.0	G-02	B	ST-Q	-	-	CS-NV12	8
2NV-0221A	B	2554-3.1	H-01	B	ST-Q	-	-	CS-NV9	-
2NV-0222B	B	2554-3.1	I-01	B	ST-Q	-	-	CS-NV9	-
2NV-0223	B	2554-3.1	I-02	C	MTO,C-Q	-	-	CS-NV15	10
2NV-0225	B	2554-3.1	F-05	C	MTO,C-Q	-	-	CS-NV14	10
2NV-0227	B	2554-3.1	E-06	C	MTO,C-Q	-	-	-	-
2NV-0231	B	2554-3.1	F-10	C	MTO,C-Q	-	-	CS-NV14	10
2NV-0233	B	2554-3.1	E-10	C	MTO,C-Q	-	-	-	-
2NV-0244A	B	2554-3.0	K-08	B	ST-Q	-	-	CS-NV8	-
2NV-0245B	B	2554-3.0	K-09	B	ST-Q	-	-	CS-NV8	-
2NV-0264	B	2554-3.1	J-10	C	MTO-Q	-	-	CS-NV11	-
2NV-0265B	B	2554-3.1	J-09	B	ST-Q	-	-	CS-NV13	8
2NV-0457A	B	2554-1.2	I-07	B	ST-Q	-	-	-	-
2NV-0458A	B	2554-1.2	J-07	B	ST-Q	-	-	-	-
2NV-0459A								DELETED	11
2NV-0842AC								DELETED	11
2NV-0844								DELETED	11
2NV-0849AC	B	2554-1.3	F-08	A	ST-Q	LT-RF	-	-	-
2NV-1002	B	2554-1.3	F-10	A,C	MTC-Q	LT-RF	NV1	MT-RF	11
2NV-1007								DELETED	11
2NV-1008								DELETED	11
2NV-1009								DELETED	11
2NV-1010								DELETED	11
2NV-1012C								DELETED	11
2NV-1013C								DELETED	11
2NV-1046	B	2554-3.0	H-12	C	MTC-Q	-	-	CS-NV16	11

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VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** FIRE PROTECTION									
1RF-0832A	B	1599-2.2	I-05	A	LT-RF	-	-	PASSIVE, U2CIV	-
1RF-0834	B	1599-2.2	I-08	AC	MTC-Q	LT-RF	RF1	MT-RF*, U2CIV	-

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VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** NUCLEAR SERVICE WATER									
2RN-0016A	C	2574-1.1	J-03	B	ST-Q	-	-	-	-
2RN-0018B	C	2574-1.1	E-02	B	ST-Q	-	-	-	-
2RN-0021A	C	2574-1.1	J-02	B	ST-Q	-	-	-	11
2RN-0022A	C	2574-1.1	H-05	B	ST-Q	-	-	-	11
2RN-0025B	C	2574-1.1	C-04	B	ST-Q	-	-	-	11
2RN-0026B	C	2574-1.1	G-05	B	ST-Q	-	-	-	11
2RN-0028	C	2574-1.1	J-09	C	MTO-Q	-	-	-	-
2RN-0030	C	2574-1.1	E-09	C	MTO-Q	-	-	-	-
2RN-0040A	C	2574-1.1	I-12	B	ST-Q	-	-	-	-
2RN-0041B	C	2574-1.1	F-12	B	ST-Q	-	-	U2 & U1 SIGNAL	-
2RN-0042A	C	2574-4.0	B-09	B	ST-Q	-	-	CS-RN4	-
2RN-0043A	C	2574-1.1	F-12	B	ST-Q	-	-	U2 & U1 SIGNAL	-
2RN-0063B	C	2574-4.0	L-10	B	ST-Q	-	-	CS-RN5	-
2RN-0064A	C	2574-4.0	L-11	B	ST-Q	-	-	CS-RN5	-
2RN-0068A	C	2574-1.1	L-12	B	ST-Q	-	-	2 SEC	11
2RN-0069A	C	2574-2.0	K-07	B	ST-Q	-	-	-	-
2RN-0070A	C	2574-2.0	E-06	B	ST-Q	-	-	-	-
2RN-0073A	C	2574-2.0	I-06	B	ST-Q	-	-	-	-
2RN-0086A	C	2574-2.0	D-12	B	ST-Q	-	-	-	-
2RN-0089A	C	2574-2.0	J-12	B	ST-Q	-	-	-	-
2RN-0103A	C	2574-2.1	C-06	B	ST-Q	-	-	2 SEC	11
2RN-0112A	C	2574-2.0	I-08	B	ST-Q	-	-	2 SEC	11
2RN-0113	C	2574-2.0	D-13	C	MTO-Q	-	RN1	RF	-
2RN-0114A	C	2574-2.1	B-11	B	ST-Q	-	-	2 SEC	11
2RN-0117A	C	2574-2.0	I-10	B	ST-Q	-	-	2 SEC	11
2RN-0126A	C	2574-2.1	D-10	B	ST-Q	-	-	-	8
2RN-0130A	C	2574-2.1	C-10	B	ST-Q	-	-	2 SEC	11
2RN-0134A	C	2574-2.1	C-07	B	ST-Q	-	-	-	-
2RN-0137A	C	2574-2.1	H-07	B	ST-Q	-	-	-	-
2RN-0140A	C	2574-2.0	E-14	B	ST-Q	-	-	2 SEC	11
2RN-0161B	C	2574-1.1	B-12	B	ST-Q	-	-	2 SEC	11
2RN-0162B	C	2574-3.0	J-07	B	ST-Q	-	-	-	-
2RN-0166A	C	2574-2.0	I-01	B	ST-Q	-	-	-	-
2RN-0170B	C	2574-3.0	I-01	B	ST-Q	-	-	-	-
2RN-0171B	C	2574-3.0	F-07	B	ST-Q	-	-	-	-
2RN-0174B	C	2574-3.0	I-07	B	ST-Q	-	-	-	-
2RN-0187B	C	2574-3.0	F-12	B	ST-Q	-	-	-	-
2RN-0190B	C	2574-3.0	J-12	B	ST-Q	-	-	-	-
2RN-0204B	C	2574-3.1	C-05	B	ST-Q	-	-	2 SEC	11
2RN-0213B	C	2574-3.0	J-08	B	ST-Q	-	-	2 SEC	11
2RN-0214	C	2574-3.0	D-14	C	MTO-Q	-	RN1	RF	-
2RN-0215B	C	2574-3.1	B-11	B	ST-Q	-	-	-	11
2RN-0218B	C	2574-3.0	I-10	B	ST-Q	-	-	2 SEC	11
2RN-0227B	C	2574-3.1	E-10	B	ST-Q	-	-	-	-
2RN-0231B	C	2574-3.1	C-10	B	ST-Q	-	-	2 SEC	11

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
2RN-0235B	C	2574-3.1	E-07	B	ST-Q	-	-	-	-
2RN-0238B	C	2574-3.1	I-07	B	ST-Q	-	-	-	-
2RN-0240B	C	2574-3.0	F-13	B	ST-Q	-	-	2 SEC	11
2RN-0252B	C	2574-4.0	E-02	A	ST-Q	LT-RF	-	CS-RN2	-
2RN-0253A	C	2574-4.0	C-02	A	ST-Q	LT-RF	-	CS-RN2	-
2RN-0276A	C	2574-4.0	J-02	A	ST-Q	LT-RF	-	CS-RN3	-
2RN-0277B	C	2592-4.0	H-02	A	ST-Q	LT-RF	-	CS-RN3	-
2RN-0279B	C	1574-1.0	C-02	B	ST-Q	-	-	-	-
2RN-0296A	C	2574-1.1	L-13	B	ST-Q	-	-	-	-
2RN-0297B	C	2574-3.0	L-05	B	ST-Q	-	-	-	-
2RN-0299A	C	1574-1.0	C-02	B	ST-Q	-	-	-	-

Duke Power Company
 McGuire Nuclear Station
 PUMP AND VALVE INSERVICE
 TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** CONTAINMENT VENTILATION COOLING WATER									
2RV-0032A	B	2604-3.0	K-10	A	ST-Q	LT-RF	-	CS-RV1	-
2RV-0033B	B	2604-3.0	K-12	A	ST-Q	LT-RF	-	CS-RV1	-
2RV-0076A	B	2604-3.0	C-12	A	ST-Q	LT-RF	-	CS-RV1	-
2RV-0077B	B	2604-3.0	C-10	A	ST-Q	LT-RF	-	CS-RV1	-
2RV-0079A	B	2604-3.0	K-07	A	ST-Q	LT-RF	-	-	-
2RV-0080B	B	2604-3.0	K-06	A	ST-Q	LT-RF	-	-	-
2RV-0101A	B	2604-3.0	C-05	A	ST-Q	LT-RF	-	-	-
2RV-0102B	B	2604-3.0	C-07	A	ST-Q	-	-	-	-
2RV-0126	B	2604-3.0	B-12	AC	MTC-Q	LT-RF	RV1	MT-RF*	-
2RV-0130	B	2604-3.0	J-12	AC	MTC-Q	LT-RF	RV1	MT-RF*	-

Duke Power Company
 McGuire Nuclear Station
 PUMP AND VALVE INSERVICE
 TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** MAIN STEAM TO AUX. EQUIPMENT									
2SA-0005	B	2593-1.2	F-04	C	MTO.C-Q	-	-	-	10
2SA-0006	B	2593-1.2	F-03	C	MTO.C-Q	-	-	-	10
2SA-0048ABC	B	2593-1.2	E-04	B	ST-Q	-	-	-	-
2SA-0049AB	B	2593-1.2	F-02	B	ST-Q	-	-	-	-

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COORD	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** MAIN STEAM									
2SM-0001AB	B	2593-1.0	K-13	B	ST-Q	-	-	CS-SM1	-
2SM-0003AB	B	2593-1.0	H-13	B	ST-Q	-	-	CS-SM1	-
2SM-0005AB	B	2593-1.0	I-14	B	ST-Q	-	-	CS-SM1	-
2SM-0007AB	B	2593-1.0	C-14	B	ST-Q	-	-	CS-SM1	-
2SM-0009AB	B	2593-1.0	J-13	B	ST-Q	-	-	CS-SM2, 2 SEC	11
2SM-0010AB	B	2593-1.0	G-13	B	ST-Q	-	-	CS-SM2, 2 SEC	11
2SM-0011AB	B	2593-1.0	I-13	B	ST-Q	-	-	CS-SM2, 2 SEC	11
2SM-0012AB	B	2593-1.0	C-13	B	ST-Q	-	-	CS-SM2, 2 SEC	11

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** MAIN STEAM VENT TO ATMOSPHERE									
2SV-0001AB	B	2593-1.3	L-05	B	ST-Q	-	-	-	-
2SV-0002	B	2593-1.3	K-06	C	SP-5Y	-	-	1170 PSIG	-
2SV-0003	B	2593-1.3	K-07	C	SP-5Y	-	-	1190 PSIG	-
2SV-0004	B	2593-1.3	K-09	C	SP-5Y	-	-	1205 PSIG	-
2SV-0005	B	2593-1.3	K-11	C	SP-5Y	-	-	1220 PSIG	-
2SV-0006	B	2593-1.3	K-12	C	SP-5Y	-	-	1225 PSIG	-
2SV-0007ABC	B	2593-1.3	G-05	B	ST-Q	-	-	-	-
2SV-0008	B	2593-1.3	E-06	C	SP-5Y	-	-	1170 PSIG	-
2SV-0009	B	2593-1.3	E-07	C	SP-5Y	-	-	1190 PSIG	-
2SV-0010	B	2593-1.3	E-09	C	SP-5Y	-	-	1205 PSIG	-
2SV-0011	B	2593-1.3	E-11	C	SP-5Y	-	-	1220 PSIG	-
2SV-0012	B	2593-1.3	E-12	C	SP-5Y	-	-	1225 PSIG	-
2SV-0013AB	B	2593-1.0	L-04	B	ST-Q	-	-	-	-
2SV-0014	C	2593-1.0	K-05	C	SP-5Y	-	-	1170 PSIG	-
2SV-0015	B	2593-1.0	K-07	C	SP-5Y	-	-	1190 PSIG	-
2SV-0016	B	2593-1.0	K-09	C	SP-5Y	-	-	1205 PSIG	-
2SV-0017	B	2593-1.0	K-10	C	SP-5Y	-	-	1220 PSIG	-
2SV-0018	B	2593-1.0	K-12	C	SP-5Y	-	-	1225 PSIG	-
2SV-0019AB	B	2593-1.0	G-05	B	ST-Q	-	-	-	-
2SV-0020	B	2593-1.0	E-05	C	SP-5Y	-	-	1170 PSIG	-
2SV-0021	B	2593-1.0	E-07	C	SP-5Y	-	-	1190 PSIG	-
2SV-0022	B	2593-1.0	E-09	C	SP-5Y	-	-	1205 PSIG	-
2SV-0023	B	2593-1.0	E-10	C	SP-5Y	-	-	1220 PSIG	-
2SV-0024	B	2593-1.0	E-12	C	SP-5Y	-	-	1225 PSIG	-

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CI	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** BREATHING AIR									
2VB-0049B	B	2605-3.1	F-02	A	ST-Q	LT-RF	-	-	-
2VB-0050	B	2605-3.1	E-04	AC	MTC-Q	LT-RF	VB1	MT-RF*	-

Duke Power Company
 McGuire Nuclear Station
 PUMP AND VALVE INSERVICE
 TESTING PROGRAM

VALVE	CL	FLC DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** ANNULUS VENTILATION									
2VE-0005A	B	2564-1	G-04	A	ST-Q	LT-RF	-	-	-
2VE-0006B	B	2564-1	G-04	A	ST-Q	LT-RF	-	-	-
2VE-0008A	B	2564-1	J-02	B	ST-Q	-	-	-	-
2VE-0010A	B	2564-1	H-03	A	ST-Q	LT-RF	-	-	-
2VE-0011	B	2564-1	H-03	AC	LT-RF	-	-	PASSIVE	-

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** DIESEL GENERATOR STARTING AIR									
2VG-0003	C	2609-4.0	J-12	C	MTO-Q	-	-	-	11
2VG-0004	C	2609-4.0	E-12	C	MTO-Q	-	-	-	11
2VG-0017	C	2609-4.0	J-06	C	MTO-Q	-	-	-	11
2VG-0018	C	2609-4.0	I-06	C	MTO-Q	-	-	-	11
2VG-0019	C	2609-4.0	E-06	C	MTO-Q	-	-	-	11
2VG-0020	C	2609-4.0	D-06	C	MTO-Q	-	-	-	11
2VG-0061	C	2609-4.0	K-02	B	ST-Q	-	-	2 SEC	11
2VG-0062	C	2609-4.0	K-02	B	ST-Q	-	-	2 SEC	11
2VG-0063	C	2609-4.0	I-02	B	ST-Q	-	-	2 SEC	11
2VG-0064	C	2609-4.0	H-02	B	ST-Q	-	-	2 SEC	11
2VG-0065	C	2609-4.0	F-02	B	ST-Q	-	-	2 SEC	11
2VG-0066	C	2609-4.0	E-02	B	ST-Q	-	-	2 SEC	11
2VG-0067	C	2609-4.0	C-02	B	ST-Q	-	-	2 SEC	11
2VG-0068	C	2609-4.0	C-02	B	ST-Q	-	-	2 SEC	11
2VG-0115	C	2609-4.0	K-09	C	MTO-Q	-	-	-	-
2VG-0116	C	2609-4.0	H-09	C	MTO-Q	-	-	-	-
2VG-0117	C	2609-4.0	F-09	C	MTO-Q	-	-	-	-
2VG-0118	C	2609-4.0	C-09	C	MTO-Q	-	-	-	-

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** INSTRUMENT AIR									
2VI-0040	B	2605-1.3	J-13	AC	MTC-Q	LT-RF	VI2	MT-RF*	-
2VI-0124	B	2605-1.2	B-04	AC	MTC-Q	LT-RF	VI1	MT-RF*	-
2VI-0129B	B	2605-1.3	J-11	A	ST-Q	LT-RF	-	-	-
2VI-0135	C	2605-1.3	J-07	AC	MTC-Q	LT	VI3	-	11
2VI-0136	C	2605-1.3	J-08	AC	MTC-Q	LT	VI3	-	11
2VI-0137	C	2605-1.3	D-06	AC	MTC-Q	LT	VI3	-	11
2VI-0138	C	2605-1.3	D-06	AC	MTC-Q	LT	VI3	-	11
2VI-0139	C	2605-1.3	D-07	AC	MTC-Q	LT	VI3	-	11
2VI-0140	C	2605-1.3	D-07	AC	MTC-Q	LT	VI3	-	11
2VI-0141	C	2605-1.3	J-06	AC	MTC-Q	LT	VI3	-	11
2VI-0142	C	2605-1.3	J-06	AC	MTC-Q	LT	VI3	-	11
2VI-0148B	B	2605-1.2	E-03	A	ST-Q	LT-RF	-	-	-
2VI-0149	B	2605-1.2	E-05	AC	MTC-Q	LT-RF	VI1	MT-RF*	-
2VI-0150B	B	2605-1.2	C-02	A	ST-Q	LT-RF	-	-	-
2VI-0160B	B	2605-1.3	D-11	A	ST-Q	LT-RF	-	-	-
2VI-0161	B	2605-1.3	D-13	AC	MTC-Q	LT-RF	VI2	MT-RF*	-
2VI-0362A	B	2605-1.2	D-04	A	ST-Q	LT-RF	-	-	-

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** CONTAINMENT PURGE VENTILATION									
2VP-0001B	B	2576-1	I-06	A	LT-TS	-	-	-	10
2VP-0002A	B	2576-1	I-07	A	LT-TS	-	-	-	10
2VP-0003B	B	2576-1	K-06	A	LT-TS	-	-	-	10
2VP-0004A	B	2576-1	K-07	A	LT-TS	-	-	-	10
2VP-0006B	B	2576-1	E-06	A	LT-TS	-	-	-	10
2VP-0007A	B	2576-1	E-07	A	LT-TS	-	-	-	10
2VP-0008B	B	2576-1	D-06	A	LT-TS	-	-	-	10
2VP-0009A	B	2576-1	D-07	A	LT-TS	-	-	-	10
2VP-0010A	B	2576-1	J-08	A	LT-TS	-	-	-	10
2VP-0011B	B	2576-1	J-09	A	LT-TS	-	-	-	10
2VP-0012A	B	2576-1	I-08	A	LT-TS	-	-	-	10
2VP-0013B	B	2576-1	I-09	A	LT-TS	-	-	-	10
2VP-0015A	B	2576-1	F-08	A	LT-TS	-	-	-	10
2VP-0016B	B	2576-1	F-09	A	LT-TS	-	-	-	10
2VP-0017A	B	2576-1	B-07	A	LT-TS	-	-	-	10
2VP-0018B	B	2576-1	B-06	A	LT-TS	-	-	-	10
2VP-0019A	B	2576-1	B-08	A	LT-TS	-	-	-	10
2VP-0020B	B	2576-1	B-09	A	LT-TS	-	-	-	10

Duke Power Company
 McGuire Nuclear Station
 PUMP AND VALVE INSERVICE
 TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** CONTAINMENT AIR RELEASE AND ADDITION									
2VQ-0001A	B	2585-1.0	J-04	A	ST-Q	LT-RF	-	2 SEC	11
2VQ-0002B	B	2585-1.0	J-06	A	ST-Q	LT-RF	-	2 SEC	11
2VQ-0005B	B	2585-1.0	E-06	A	ST-Q	LT-RF	-	2 SEC	11
2VQ-0006A	B	2585-1.0	E-03	A	ST-Q	LT-RF	-	2 SEC	11

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** STATION AIR									
2VS-0012B	B	2605-2.2	F-08	A	ST-Q	LT-RF	-	-	-
2VS-0013	B	2605-2.2	H-08	AC	MTC-Q	LT-RF	VS1	MT-RF*	-

Duke Power Company
 McGuire Nuclear Station
 PUMP AND VALVE INSERVICE
 TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** CONT. AIR RETURN EXCHANGE AND HYDROGEN ADD.									
2VX-0001A	B	2557-1	I-03	B	ST-Q	-	-	-	-
2VX-0002B	B	2557-1	I-12	B	ST-Q	-	-	-	-
2VX-0030	B	2557-1	J-03	AC	MTC-Q	LT-RF	VX1	MT-RF	-
2VX-0031A	B	2557-1	J-13	A	ST-Q	LT-RF	-	2 SEC	11
2VX-0033B	B	2557-1	J-12	A	ST-Q	LT-RF	-	2 SEC	11
2VX-0034	B	2557-1	K-12	A	LT-RF	-	-	PASSIVE	-
2VX-0040	B	2557-1	K-03	A	LT-RF	-	-	PASSIVE	-

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
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** EQUIPMENT DECONTAMINATION

2WE-0013	B	2568-1.0	E-08	A	LT-RF	-	-	PASSIVE	-
2WE-0023	B	2568-1.0	E-09	A	LT-RF	-	-	PASSIVE	-

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** LIQUID WASTE RECYCLE									
2WL-0001B	B	2565-1.1	L-11	A	ST-Q	LT-RF	-	-	-
2WL-0002A	B	2565-1.1	K-13	A	ST-Q	LT-RF	-	-	-
2WL-0024	B	2565-1.1	J-14	AC	MTC-Q	LT-RF	WL2	MT-RF*	-
2WL-0039A	F	2565-1.1	J-05	A	ST-Q	LT-RF	-	-	-
2WL-0041B	B	2565-1.1	K-05	A	ST-Q	LT-RF	-	-	-
2WL-0064A	B	2565-1.0	J-03	A	ST-Q	LT-RF	-	-	-
2WL-0065B	B	2565-1.0	K-05	A	ST-Q	LT-RF	-	-	-
2WL-0264	B	2565-1.0	J-02	AC	LT-RF	-	-	PASSIVE	-
2WL-0321A	B	2565-7.0	I-05	A	ST-Q	LT-RF	-	-	-
2WL-0322B	B	2565-7.0	H-04	A	ST-Q	LT-RF	-	-	-
2WL-0385	B	2565-7.0	J-05	AC	MTC-Q	LT-RF	WL3	MT-RF*	-
2WL-0466								DELETED	9
2WL-1301B	B	2565-1.0	03	A	ST-Q	LT-RF	-	-	-
2WL-1302A	B	2565-1.0	E-04	A	ST-Q	LT-RF	-	-	-

Duke Power Company
 McGuire Nuclear Station
 PUMP AND VALVE IN SERVICE
 TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT T F	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** DIESEL GENERATOR ROOM SUMP PUMP								
2WN-0003	C	2609-7.0	L-11	C	MTO,C-Q	-	-	-
2WN-0005	C	2609-7.0	K-11	C	MTO,C-Q	-	-	-
2WN-0007	C	2609-7.0	J-11	C	MTC-Q	-	-	-
2WN-0011	C	2609-7.0	F-11	C	MTO,C-Q	-	-	-
2WN-0013	C	2609-7.0	E-11	C	MTO,C-Q	-	-	-
2WN-0015	C	2609-7.0	D-11	C	MTC-Q	-	-	-

Duke Power Company
McGuire Nuclear Station
PUMP AND VALVE INSERVICE
TESTING PROGRAM

VALVE	CL	FLOW DIAGRAM	FLOW COOR	CAT	TEST REQ1	TEST REQ2	RR	TEST ALTERNATIVES/ REMARKS	R E V
** MAKEUP DEMINERALIZED WATER									
2YM-0115B	B	1601-2.4	C-09	A	ST-Q	LT-RF	-	-	-
2YM-0116	B	1601-2.4	C-04	AC	MTC-Q	LT-RF	YM1	MT-RF*	-

RELIEF/JUSTIFICATION: RR-IA1

VALVE: 2IA-5360, 2IA-5370, 2IA-5380, 2IA-5390

FLOW DIAGRAM: MC-2499-IA1

CATEGORY: AC

CLASS: B

FUNCTION: Check containment pressure on reactor building side of airlock and relieve to containment to prevent overpressurization of airlock.

TEST REQUIREMENT: Verify proper valve movement.

BASIS: These valves are double isolation check valves and are arranged in series. There is no means to leak test the valves individually.

ALTERNATE TESTING: These valves will be verified closed by leak testing performed in accordance with Appendix J. The valves will be tested in series, not individually.

RELIEF/JUSTIFICATION: RR-NB1
VALVE: 2NB-262
FLOW DIAGRAM: MC-2556-3.0
CATEGORY: A, C
CLASS: B
FUNCTION: Provide containment isolation.
TEST REQUIREMENT: Verify proper valve movement once per three months.
BASIS: The system design does not provide any indication for verifying valve closure upon flow reversal.
ALTERNATE TESTING: Valve will be verified shut by leak test performed in accordance with Appendix J.

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RELIEF/JUSTIFICATION: RR-VI3

VALVE: 2VI-135, 2VI-136, 2VI-137, 2VI-138, 2VI-139, 2VI-140,
2VI-141, 2VI-142

FLOW DIAGRAM: MC-2605-1.3

CATEGORY: AC

CLASS: C

FUNCTION: Check instrument air from the main steam isolation
valve accumulator tank.

TEST REQUIREMENT: Cycle quarterly and leak test.

BASIS: These valves are double isolation check valves and are
arranged in series. There is no means to test the
valves individually. Testing these valves makes one
of the main steam isolation valves inoperable due to
depressurizing the accumulator tank.

ALTERNATE TESTING: These valves will be cycled and leak tested during
cold shutdown. Relief is required because two valves
at a time are tested in series, not individually.

RELIEF/JUSTIFICATION: CS-FW1
VALVE: 2FW-27A
FLOW DIAGRAM: MC-2571-1.0
CATEGORY: B
CLASS: B
FUNCTION: Isolates low pressure injection from FWST
TEST REQUIREMENT: Full stroke exercise quarterly.
BASIS: Closure of this valve would render all low pressure injection inoperable.
ALTERNATE TESTING: Valve will be cycled and timed during cold shutdown.

RELIEF/JUSTIFICATION: CS-ND4

VALVE: 2ND-70

FLOW DIAGRAM: MC-2561-1.0

CATEGORY: C

CLASS: B

FUNCTION: RHR to SI Suction Check

TEST REQUIREMENT: Full stroke exercise quarterly.

BASIS: 2ND-70 cannot be full stroked during power operation since the only full flow path is into the RCS and this can only be performed during cold shutdown. The miniflow for ND Pump 2A does not pass through 2ND-70 so it cannot be partial stroked during power operation.

2ND-70 cannot be seat leak tested during power operation since the required valve lineup cannot be made without putting 2000 ppm boron water from the RWST into the Chemical and Volume Control Pump Suction. Additionally, with the RCS at normal operating pressure, the seat leakage cannot be identified.

ALTERNATE TESTING: 2ND-70 will be full stroke exercised and seat leak tested at cold shutdown and depressurized, but not more often than once per nine months.

RELIEF/JUSTIFICATION: CS-ND5

VALVE: 2ND-71

FLOW DIAGRAM: MC-2561-1.0

CATEGORY: C

CLASS: B

FUNCTION: RHR to SI Suction Check

TEST REQUIREMENT: Full stroke exercise quarterly.

BASIS: Valve cannot be full stroked at power since the only full flow path is into the RCS and this can only be done at refueling. 2ND-71 cannot be partial stroked during power since the required valve lineup would render both trains of safety injection inoperable.

2ND-71 cannot be leak tested with the RCS at normal operating pressure because the seat leakage cannot be identified.

ALTERNATE TESTING: Valve will be full stroked at cold shutdown and depressurized, but not more often than once per nine months.

RELIEF/JUSTIFICATION: CS-NI21

VALVE: 2NI-136B

FLOW DIAGRAM: MC-2562-3.0

CATEGORY: B

CLASS: B

FUNCTION: Safety injection suction from RHR

TEST REQUIREMENT: Cycle time quarterly.

BASIS: Opening this valve during modes in which safety injection is required could seat the check valve from the refueling water storage tank, NI-101, in the event of a LOCA. The RHR pumps would start, seating the check valve and causing the safety injection pumps to runout the RHR pumps.

ALTERNATE TESTING: Valves will be cycle timed during cold shutdown.

RELIEF/JUSTIFICATION: CS-NS1

VALVE: 2NS-38B, 2NS-43A

FLOW DIAGRAM: MC-2563-1.0

CATEGORY: B

CLASS: B

FUNCTION: Containment Spray Header Isolation

TEST REQUIREMENT: Cycle time quarterly.

BASIS: Opening either of these valves during modes in which the Residual Heat Removal (RHR) system is required would divert flow from the Reactor Coolant system cold legs if the RHR system were to automatically initiate. The flowrate would not meet the initial flowrate requirements for a large break LOCA in modes 1 through 4.

ALTERNATE TESTING: Valves will be cycle timed during cold shutdown.

RELIEF/JUSTIFICATION: CS-NV3 (Deleted per Rev. 11)

VALVE: 2NV-1A, 2NV-2A

RELIEF/JUSTIFICATION: CS-NV5 (Deleted per Rev. 11)

VALVE: 2NV-22

RELIEF/JUSTIFICATION: CS-NV6 (Deleted per Rev. 11)

VALVE: 2NV-1007, 2NV-1008, 2NV-1009, 2NV-1010

RELIEF/JUSTIFICATION: CS-NV10 (Deleted per Rev. 11)

VALVE: 2NV-459A

RELIEF/JUSTIFICATION: CS-NV16
VALVE: 2NV-1046
FLOW DIAGRAM: MC-2554-U.0
CATEGORY: C
CLASS: B
FUNCTION: Opens on reciprocating charging pump recirc. flow.
Closes to prevent diversion of flow to the centrifugal
charging pump suctions.
TEST REQUIREMENT: Verify proper valve movement once every 3 months.
BASIS: Testing this valve on line would result in adding
2000 ppm borated water to the centrifugal charging
pump suction resulting in a reactor power transient.
ALTERNATE TESTING: Valve will be verified to seat closed during cold
shutdown.

RELIEF/JUSTIFICATION: CS-P41 (Deleted per Rev. 11)

VALVE: 2P4-21A, 2RN-22A, 2RN-25B, 2RN-26B

RELIEF/JUSTIFICATION: CS-VG1

VALVE: 2VG-17, 2VG-18, 2VG-19, 2VG-20

FLOW DIAGRAM: MC-2609-4.0

CATEGORY: C

CLASS: C

FUNCTION: Open to provide diesel generator control air from individual starting air banks.

TEST REQUIREMENT: Full stroke exercise quarterly.

BASIS: To test these valves, the diesel generator would have to be started on a single bank of control air which would be a degraded condition. This is not justified for quarterly starts.

ALTERNATE TESTING: Valves will be full stroke exercised during cold shutdown.