PLAN ASSIGNMENT PAGE

NUCLEAR PLANT ENGINEERING
PRE-SERVICE INSPECTION/PUMP AND VALVE TESTING PLAN

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Vol. 4 of 4

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PUMP AND VALVE

INSERVICE TESTING PLAN

RIVER BEND STATION

FIRST TEN YEAR INSPECTION INTERVAL
REVISION 0

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1.0 INTRODUCTION

The Inservice Inspection Plan for River Bend Station pumps and valves is developed in compliance with 10CFR50.55a and Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition, Winter 1981 Addenda. Where compliance is determined to be impractical, specific relief has been requested.

Section 2.0 discusses the Inservice Testing Plan for applicable Class 1, 2, and 3 pumps. Section 3.0 discusses the Inservice Testing Program for applicable Class 1, 2, and 3 valves. Note that all information provided should be considered preliminary and may change as the plan is further developed.

2.0 INSERVICE TESTING OF PUMPS

2.1 General Information

The Inservice Testing Plan for ASME Class 1, 2, and 3 pumps was developed in accordance with the requirements of ASME Boiler and Pressure Vessel Code, Section XI, Subsection IWP, 1980 Edition, Winter 1981 Addenda.

The Inservice Testing Plan for pumps will remain in effect through the first 10 year inservice inspection interval commencing at commercial operation.

Appendix A identifies the Class 1, 2, and 3 pumps that are to be tested, along with the applicable parameters to be measured.

2.2 Plan Information

The following information is included in the Inservice Testing Plan for pumps:

2.2.1 Pump Number indicates the pump identification number as shown on the FSK's.

2.2.2 Description provides the pump's functional identification as it is related to system operation.

2.2.3 FSK Number indicates the drawing where the pump appears.

2.2.4 Class is the ASME Code Class the pump has been designed to.

2.2.5 Test Parameters indicates the frequency which test quantities, required per Table IWP-3100-1, will be measured or observed. Key for abbreviations is as follows:

NA - Not applicable (sealed or self lubricated bearings),

NR - Not required (constant speed drive),

Q - Quarterly,

RR - See Request for Relief,

() - To be determined.

2.2.6 Request for Relief indicates applicable Requests for Relief for the pump.

2.3 Request for Relief

Where ASME Section XI requirements are determined to be impractical, a Request for Relief has been written. They are submitted with the plan and relief will be assumed to be granted until notified otherwise. Pump Requests for Relief are submitted in Appendix B.

3.0 INSERVICE TESTING OF VALVES

3.1 General Information

The Inservice Testing Plan for ASME Class 1, 2, and 3 valves was developed in accordance with the requirements of ASME Boiler and Pressure Vessel Code, Section XI, Subsection IWV, 1980 Edition, Winter Addenda.

The Inservice Testing Plan for valves will remain in effect through the first 10 year inservice inspection interval commencing at commerical operation.

Appendix C identifies the Class 1, 2, and 3 valves that are to be tested. This listing is arranged by system and FSK number.

3.2 Preservice Testing

Each valve shall be tested after installation and prior to service. These tests will be conducted under conditions similar to those to be experienced during subsequent inservice tests. Safety and relief valves which will be removed and bench tested during subsequent inservice tests need not be installed prior to the preservice test.

3.3 Plan Information

The following information is included in the Inservice Testing Plan for valves:

3.3.1 Valve Number indicates the valve identification number as shown on the FSK. The valve's full number includes a system prefix, which is identified with the system description, unless specifically noted otherwise.

3.3.2 Class is the ASME Code Class the valve has been designed to.

3.3.3 Coordinates is the locations on the FSK where the valve is found.

3.3.4 Category indicates the valve category as defined by Subsection IWV-2200.

3.3.5 Size indicates the nominal diameter of valve in inches.

3.3.6 Valve Type indicates the specific design of the valve. The following is a list of the symbols used:

BF - butterfly
CK - check
GA - gate
GL - globe
PG - plug
RV - relief
SC - stop check
XP - explosive

3.3.7 Actuator Type indicates the type of operators used to change the valve position. The following is a list of the symbols used:

AO - air operator
HY - hydraulic operator
MA - manual operator
MO - motor operated
SA - Self actuated
SO - solenoid operator
XP - explosive charge

3.3.8 Normal Position indicates the valve position during normal operation. The following is a list of the symbols used:

C - closed
LC - locked closed
O - open

3.3.9 Test indicates the test requirements which apply to the valve. The following is a list of the symbols used:

ET - explosive test
FS - fail safe test
LR - Leak rate of seat measured
PI - position indication verified
PSE - partial stroke exercise
SP - set point verified
FSE - full stroke exercise; for power actuated valves stroke times shall be measured

3.3.10 Requests for Relief indicates the number of the valve Request for Relief, if one has been requested.

3.3.11 Frequency indicates the plant operational condition in which the valve will be tested. The following is a list of the symbols used:

Q - Valves/test requirements in this category will be tested quarterly during normal operation.

CS - Valves/test requirements in this category will be tested during cold shutdowns. Valve testing will commence no later than seventy two hours after cold shutdown and will continue until required testing is completed or plant startup, whichever occurs first. Completion of all required valve testing is not a requisite to plant startup. Valve testing which is not completed during a cold shutdown will be performed during subsequent cold shutdowns to meet the testing requirements. No valve is required to be tested more often than once every 92 days.

RF - Valves/test requirements in this category will be tested during a refueling outage.

3.3.12 Remarks will indicate specific requirements or comments with respect to the test requirements. Included will be maximum stroke time for power actuated valves, set points for relief valves, the method of leak rate measurement, and the fail direction for fail safe tests.

3/4 Request for Relief

Where ASME Section XI requirements are determined to be impractical, a Request for Relief has been written. They are submitted with the plan and relief will be assumed to be granted until notified otherwise. Valve Requests for Relief are submitted in Appendix D.

APPENDIX A

INSERVICE TESTING PLAN

ISI CLASS 1, 2 & 3 PUMPS
RIVER BEND STATION

PUMP NO.	DESCRIPTION	FSK NO.	CLASS	TEST PARAMETERS							REQUEST FOR RELIEF
				N	Pi	△P	Q	V	L/P	Tb	
1E22*PC001	High Pressure Core Spray	27-4A	2	NR	Q	Q	Q	RR	NA	RR	1,5
1E22*PC003	High Pressure Core Spray-fill	27-4A	2	NR	Q	Q	Q	RR	Q	RR	1,5
1E21*PC001	Low Pressure Core Spray	27-5	2	NR	Q	Q	Q	RR	NA	RR	1,5
1E21*PC002	Low Pressure Core Spray-fill	27-5	2	NR	Q	Q	Q	RR	Q	RR	1,5
1EGF*P1A	Standby Diesel Generator Fuel Oil Transfer	8-9A	3	NR	Q	Q	Q	RR	NA	RR	1,5
1EGF*P1B	Standby Diesel Generator Fuel Oil Transfer	8-9B	3	NR	Q	Q	Q	RR	NA	RR	1,5
1EGF*P1C	Standby Diesel Generator Fuel Oil Transfer	8-9C	3	NR	Q	Q	Q	RR	NA	RR	1,5
1EGF*P2A	Standby Diesel Generator Fuel Oil Booster	NA	3	NR	RR	RR	RR	RR	NA	RR	1,4,5
1EGF*P2B	Standby Diesel Generator	NA	3	NR	RR	RR	RR	RR	NA	RR	1,4,5
1EGO*P1A	Standby Diesel Generator Lube Oil Transfer	NA	3	NR	RR	RR	RR	RR	NA	RR	1,4,5
1EGO*P1B	Standby Diesel Generator Lube Oil Transfer	NA	3	NR	RR	RR	RR	RR	NA	RR	1,4,5
1EGT*P1A	Standby Diesel Generator Jacket Water Heater Circ	NA	3	NR	RR	RR	RR	RR	NA	RR	1,4,5
1EGT*P1B	Standby Diesel Generator Jacket Water Heater Circ	NA	3	NR	RR	RR	RR	RR	NA	RR	1,4,5
1HVK*P1A	Control Building Chilled Water	22-12A	3	NR	Q	Q	Q	RR	Q	RR	1,5
1HVK*P1B	Control Building Chilled Water	22-12B	3	NR	Q	Q	Q	RR	Q	RR	1,5
1HVK*P1C	Control Building Chilled Water	22-12A	3	NR	Q	Q	Q	RR	Q	RR	1,5
1HVK*P1D	Control Building Chilled Water	22-12B	3	NR	Q	Q	Q	RR	Q	RR	1,5
1E51*PC001	Reactor Core Isolation Cooling	27-6B	2	Q	Q	Q	Q	RR	NA	RR	1,5
1E51*PC003	Reactor Core Isolation Cooling-fill	27-6B	2	NR	Q	Q	Q	RR	Q	RR	1,5
1LSV*C3A	Penetration Valve Leakage Control Compressor	27-29A	2	NR	RR	RR	RR	RR	(Q)	RR	1,2,5
1LSV*C3B	Penetration Valve Leakage Control Compressor	27-29A	2	NR	RR	RR	RR	RR	(Q)	RR	1,2,5

INSERVICE TESTING PLAN

ISI CLASS 1, 2 & 3 PUMPS
RIVER BEND STATION

Rev.0

PUMP NO.	DESCRIPTION	FSK NO.	CLASS	TEST PARAMETERS							REQUEST FOR RELIEF
				N	Pi	ΔP	Q	V	L/P	Tb	
1E12*PC002A	Residual Heat Removal	27-7F	2	NR	Q	Q	Q	RR	NA	kR	1,5
1E12*PC002B	Residual Heat Removal	27-7B	2	NR	Q	Q	Q	RR	NA	RR	1,5
1E12*PC002C	Residual Heat Removal	27-7D	2	NR	Q	Q	Q	RR	NA	RR	1,5
1E12*PC003	Residual Heat Removal-fill	27-7B	2	NR	Q	Q	Q	RR	Q	RR	1,5
1SFC*P1A	Fuel Pool Cooling	34-2B	3	NR	Q	Q	Q	RR	(Q)	RR	1,5
1SFC*P1B	Fuel Pool Cooling	34-2B	3	NR	Q	Q	Q	RR	(Q)	RR	1,5
1C41*PC001A	Standby Liquid Control	27-16	2	NR	RR	RR	RR	RR	RR	RR	1,3.5
1C41*PC001B	Standby Liquid Control	27-16	2	NR	RR	RR	RR	RR	RR	RR	1,3,5
1SWP*P2A	Standby Service Water	9-10G	3	NR	Q	Q	Q	RR	NA	RR	1,5
1SWP*P2B	Standby Service Water	9-10G	3	NR	Q	Q	Q	RR	NA	RR	1,5
1SWP*P2C	Standby Service Water	9-10G	3	NR	Q	Q	Q	RR	NA	RR	1,5
1SWP*P2D	Standby Service Water	9-10G	3	NR	Q	Q	Q	RR	NA	RR	1,5

APPENDIX B

PUMP REQUEST FOR RELIEF NO. 1

SYSTEM:	Safety Related
COMPONENT:	All pumps listed in the program
CLASS:	2 & 3
FUNCTION:	To provide pumped liquid to safety related systems
TEST REQUIREMENT:	To measure bearing temperature yearly
BASIS FOR RELIEF:	Industry data has shown that bearing temperature changes due to degrading bearings only occurs after major degradation has occurred at the bearing. Prior to this, vibration monitoring would provide the necessary information to identify changes in the condition of bearings. Reliance on vibration monitoring would allow corrective actior to be taken prior to failure of bearings and possible damage to pumps.
ALTERNATE TESTING:	Measure vibration

PUMP REQUEST FOR RELIEF NO. 2

SYSTEM:	Penetration valve leakage control
COMPONENT:	Compressors 1LSV*C3A and 1LSV*C3B
CLASS:	2
FUNCTION:	To provide compressed air for Penetration Valve Leakage Control System, Main Steam Isolation Valve Seal System, and Main Steam Safety and Relief Valves.
TEST REQUIREMENT:	An inservice test shall be conducted with the pump operating at nominal motor nameplate speed. The resistance of the system shall be varied until either the measured differential pressure or the measured flow rate equals the reference value. The test parameters shall then be measured or observed and compared to the corresponding reference valves.
BASIS FOR RELIEF:	System was not designed to be tested in accordance with Section XI.
ALTERNATE TESTING:	(Later)

PUMP REQUEST FOR RELIEF NO. 3

SYSTEM:	Standby Liquid Control
COMPONENTS:	Pumps 1C41*PC001A and 1C41*PC001B
CLASS:	2
FUNCTION:	To pump sodium pentaborate solution into the reactor vessel.
TEST REQUIREMENT:	An inservice test shall be run on each pump nominally every 3 months during normal plant operation.
BASIS FOR RELIEF:	These pumps are located inside primary containment. Performance of inservice test will require access to pumps for test equipment set up, system line-up, and measurement of test quantities. Access to containment will be limited due to airborne contamination.
ALTERNATE TESTING:	Pumps will be tested once every cold shutdown, if not performed within the previous 92 days.

PUMP REQUEST FOR RELIEF NO. 4

SYSTEM: Standby Diesel Generator

COMPONENTS: Pumps 1EGF*P2A, 1EGF*P2B, 1EGO*P1A, 1EGO*P1B, 1EGT*P1A, and 1EGT*P1B

CLASS: 3

FUNCTION: To provide a backup to the main fuel oil booster pumps and to maintain the diesel generators in standby condition.

TEST REQUIREMENT: An inservice test shall be conducted with the pump operating at nominal motor nameplate speed. The resistance of the system shall be varied until either the measured differential pressure or the measured flow rate equals the reference value. The test parameters shall then be measured or observed and compared to the corresponding reference values.

BASIS FOR RELIEF: These pumps are supplied as an integral part of the diesel generator skid package. The skid was not designed to be tested in accordance with Section XI.

ALTERNATE TESTING: The fuel oil booster pumps, 1EGF*P2A and 1EGF*P2B, will be tested quarterly; discharge pressure and vibration will be the only test parameters. The lube oil transfer pumps, 1EGO*P1A and 1EGO*P1B, and the jacket Water Heater Circulating Pumps, 1EGT*P1A and 1EGT*P1B, will be tested quarterly; proper temperatures throughout the diesel and vibration will be the only test parameters.

PUMP REQUEST FOR RELIEF NO. 5

SYSTEM:	Safety Related
COMPONENTS:	All pumps listed in the program
CLASS:	2 & 3
FUNCTION:	To provide pumped liquid to safety related systems
TEST REQUIREMENT:	At least one displacement vibration amplitude shall be read during each inservice test
BASIS FOR RELIEF:	Standard industry practice is to use vibration velocity as a basis for the establishment of vibration standards for machinery operating at speeds from 600 to 12000 rpm. Vibration velocity is used because it is independent of frequency in this frequency range, thus yielding a simple measure of severity of vibration.
ALTERNATE TESTING:	Measure vibration velocity. Allowable ranges for vibration velocity will be: Acceptable: Less than 0.3 in./sec. Alert: 0.3 in./sec. to 0.6 in./sec. Required Action: Greater than 0.6 in./sec.

APPENDIX C

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Plant Component Cooling Water (1CCP*) | FSK NO. 9-1C | SHEET 1 OF 2 | PAGE 1 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 129	3	B-2	B	12	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 336	3	B-2	B	12	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V204	3	C-2	C	10	CK	SA	O	FSE		Q	
RV57B	3	C-4	C	3/4	RV	SA	C	SP		RF	150 psig
MOV 16B	3	C-6	B	12	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 16A	3	C-8	B	12	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V72	3	D-6	C	12	CK	SA	O	FSE		Q	
V73	3	D-8	C	12	CK	SA	O	FSE		Q	
V337	3	N-2	C	2	CK	SA	O	FSE		Q	
V338	3	N-2	C	2	CK	SA	O	FSE		Q	
V209	3	N-8	C	10	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Plant Component Cooling Water (1CCP*) | FSK NO. 9-1C | SHEET 2 OF 2 | PAGE 2 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV57A	3	N-7	C	3/4	RV	SA	C	SP		RF	150 psig
MOV 169	3	M-4	B	2	GL	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 163	3	N-4	B	2	GL	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 130	3	Q-5	B	12	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 335	3	Q-6	B	12	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Plant Component Cooling Water (1CCP*) | FSK NO. 9-1D | SHEET 1 OF 1 | PAGE 3 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 142	2	A-9	B	6	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V119	2	B-9	C	6	CK	SA	O	FSE		Q	
MOV 143	2	K-1	B	6	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 144	2	K-2	B	6	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V133	2	H-3	C	3/4	CK	SA	C	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Plant Component Cooling Wat r(1CCP*)	FSK NO. 9-1G	SHEET 1 OF 1	PAGE 4 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 158	2	M-2	A	10	GA	MO	O	FSE	10	Q	21.5 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV 159	2	N-2	A	10	GA	MO	O	FSE	10	Q	21.5 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
V118	2	J-9	AC	10	CK	SA	O	FSE		Q	
								LR		RF	10CFR50 App J
MOV 138	2	N-9	A	10	GA	MO	O	FSE	10	Q	21.5 Sec Stroke Time
								LR		RF	
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Plant Component Cooling Water(1CCP*) | FSK NO. 9-1H | SHEET 1 OF 1 | PAGE 5 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV60B	3	N-3	C	3/4	RV	SA	C	SP		RF	150 psig
V83	3	P-4	C	1.5	CK	SA	O	FSE		Q	
RV60A	3	N-6	C	3/4	RV	SA	C	SP		RF	150 psig
V92	3	P-7	C	1,5	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Containment Atmosphere Monitoring (1CMS*) | FSK NO. 33-2B | SHEET 1 OF 2 | PAGE 6 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV-31A	2	H-6	A	3/4	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								FS		Q	
								PI		RF	
SOV-31C	2	H-7	A	3/4	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								FS		Q	
								PI		RF	
SOV-35A	2	J-7	A	3/4	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								FS		Q	
								PI		RF	
SOV-35C	2	J-6	A	3/4	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								FS		Q	
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Containment Atmosphere Monitoring (1CMS*) | FSK NO. 33-2B | SHEET 2 OF 2 | PAGE 7 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V40	2	N-7	C	3/4	CK	SA	C	FSE		Q	
								LR		RF	Drywell Leakage Test
SOV 34A	2	N-6	A	3/4	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail Close
								PI		RF	
								LR		RF	Drywell Leakage Test
SOV 34C	2	N-7	A	3/4	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail Close
								PI		RF	
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Containment Atmosphere Monitoring (1CMS*) | FSK NO.33-2D | SHEET 1 OF 2 | PAGE 8 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV 31B	2	L-5	A	3/4	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR App J
								FS		Q	
								PI		RF	
SOV 31D	2	L-7	A	3/4	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								FS		Q	
								PI		RF	
SOV 35B	2	K-7	A	3/4	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								FS		Q	
								PI		RF	
SOV 35D	2	K-5	A	3/4	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								FS		Q	
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Containment Atmosphere Monitoring (1CMS*) | FSK NO. 33-2D | SHEET 2 OF 2 | PAGE 9 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V41	2	E-7	C	3/4	CK	SA	O	FSE		Q	
SOV 34B	2	E-5	A	3/4	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail Close
								PI		RF	
								LR		RF	Drywell Leakage Test
SOV 34D	2	F-5	A	3/4	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail Close
								PI		RF	
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Condensate Makeup and Draw Off (1CNS*) | FSK NO. 4-3C | SHEET 1 OF 1 | PAGE 10 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 125	2	M-3	A	4"	GA	MO	O	FSE	10	Q	21 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV 130	2	L-3	B	4"	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V86	2	P-3	AC	4"	CK	SA	C	FSE		Q	
								LR		RF	10CFR50 App J

INSERVICE TESTING PLAN

ISI CLASS 1, 2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Hydrogen Mixing (1CPM*) | FSK NO. 27-24 | SHEET 1 OF 2 | PAGE 11 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 1A	2	E-4	A	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
								LR		RF	Drywell Leakage Test
MOV 3A	2	F-4	A	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
								LR		RF	Drywell Leakage Test
MOV 2B	2	E-8	A	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
								LR		RF	Drywell Leakage Test
MOV 4B	2	E-8	A	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
								LR		RF	Drywell Leakage Test
MOV 3B	2	L-4	A	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
								LR		RF	
MOV 1B	2	M-4	A	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
								LR		RF	Drywell Leakage Test
MOV 4A	2	M-8	A	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Hydrogen Mixing (1CPM*) | FSK NO. 27-24 | SHEET 2 OF 2 | PAGE 12 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 2A	2	M-8	A	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PA		RF	
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Containment Hydrogen Purge (1CPP*) | FSK NO. 27-21 | SHEET 1 OF 1 | PAGE 13 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV 140	2	C-6	A	1	GA	SO	C	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								FS		Q	Fail Close
								PI		RF	
V2	2	C-3	AC	1	CK	SA	C	FSE		Q	
								LR		RF	10CFR50 App J
MOV 104	2	M-8	A	3	GA	MO	C	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV 105	2	P-7	A	3	GA	MO	C	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Low Pressure Core Spray System (1E21*) | FSK NO. 27-5 | SHEET 1 OF 2 | PAGE 14 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F0001	2	F-6	A	20	GA	MO	O	FSE	10	Q	100 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
V F003	2	R-4	C	12	CK	SA	C	FSE		Q	
MOV F005	1	G-3	A	10	GA	MO	C	FSE	10	RF	27 Sec Stroke Time
								LR		RF	10CFR50 App J & RX Coolant Pressure Boundary Test
								PI		RF	
AOV F006	1	D-3	AC	10	CK	SA	C	FSE	1	CS	
								LR		RF	10CFR50 App J & RX Coolant Pressure Boundary Test
								PI		RF	
MOV F011	2	N-5	A	4	GA	MO	O	FSE	10	Q	20.5 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F012	2	L-4	A	10	GL	MO	C	FSE	10	Q	62 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Low Pressure Core Spray (1E21*) | FSK NO. 27-5 | SHEET 2 OF 2 | PAGE 15 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V F033	2	N-8	C	1.5	CK	SA	O	FSE		Q	
RV F018	2	H-3	C	2	RV	SA	C	SP		RF	570 psig set point
RV F031	2	H-6	C	2	RV	SA	C	SP		RF	100 psig set point

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: High Pressure Core Spray (1E22*) | FSK NO. 27-4A | SHEET 1 OF 1 | PAGE 16 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F001	2	E-3	B	16	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V F002	2	E-4	C	16	CK	SA	C	FSE		Q	
RV F014	2	F-8	C	3/4	RV	SA	C	SP		RF	100 psig set point
1CSH*V12	2	K-7	C	1.5	CK	SA	O	FSE		Q	
V F007	2	L-7	C	1.5	CK	SA	O	FSE		Q	
V F024	2	M-4	C	14	CK	SA	C	FSE		Q	
RV F035	2	M-2	C	3/4	RV	SA	C	SP		RF	1500 psig set point
MOV F012	2	M-6	A	4	GA	MO	C	FSE	10	Q	5 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: High Pressure Core Spary (1E22*) | FSK NO. 27-4B | SHEET 1 OF 2 | PAGE 17 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F004	1	H-4	A	10	GA	MO	C	FSE	10	Q	17 Sec Stroke Time
								LR		RF	10CFR50 App J & RX Coolant Pressure Boundary Test
								PI		RF	
AOV F005	1	N-4	AC	10	CK	AO	C	FSE	1	CS	
								LR		RF	10CFR50 App J & RX Coolant Pressure Boundary Test
								PI		RF	
MOV F023	2	E-6	C	10	GA	MO	C	FSE	10	Q	50 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F015	2	J-10	A	20	GA	MO	C	FSE	10	Q	20 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
V F016	2	H-10	C	20	CK	SA	C	FSE		Q	
RV F039	2	C-6	C	3/4	RV	SA	C	SP		RF	1500 psig set point

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: High Pressure Core Spray (1E22*) | FSK NO. 27-4B | SHEET 2 OF 2 | PAGE 18 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F010	2	D-3	B	10	GL	MO	C	FSE PI	10	Q RF	-Sec Stroke Time
MOV F011	2	B-2	B	10	GL	MO	C	FSE PI	10	Q RF	-Sec Stroke Time

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Building Equipment Drains (1E31*)	FSK NO. 32-9B	SHEET 1 OF 1	PAGE 19 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V F012A	3	L-6	C	3/4	CK	SA	O	FSE	?	CS	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Building Equipment Drain (1DER*) | FSK NO. 32-9H | SHEET 1 OF 1 | PAGE 20 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V16	2	K-9	AC	8	CK	SA	O	FSE	2		
								LR		RF	Drywell Leakage Test
V17	2	J-9	AC	8	CK	SA	O	FSE	2		
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Building Equipment Drain (1DER*) | FSK NO. 32-9J | SHEET 1 OF 1 | PAGE 21 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V14	2	P-9	AC	8	CK	SA	O	FSE	2		
								LR		RF	Drywell Leakage Test
V15	2	Q-9	AC	8	CK	SA	O	FSE	2		
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Building Equipment Drain (1DER*) | FSK NO. 32-9K | SHEET 1 OF 1 | PAGE 22 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV 126	2	Q-8	A	4	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								FS		Q	Fail close upon power failure
								PI		RF	
AOV 127	2	R-8	A	4	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								FS		Q	Fail close upon power failure
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Building Equipment Drain (1E12*) | FSK NO. 32-9M | SHEET 1 OF 1 | PAGE 23 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV F095	3	G-5	B	3/4	GA	SO	C	FSE FS PI	10	Q Q RF	-Sec Stroke Time

INSERVICE TESTING PLAN
ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Plant Floor Drains (1DFR*) | FSK NO. 23-6A | SHEET 1 OF 1 | PAGE 24 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V1	2	B-9	AC	8	CK	SA	O	FSE	2		
								LR		RF	Drywell Leakage Test
V2	2	C-9	AC	8	CK	SA	O	FSE	2		
								LR		RF	Drywell Leakage Test
V3	2	L-9	AC	8	CK	SA	O	FSE	2		
								LR		RF	Drywell Leakage Test
V4	2	M-9	AC	8	CK	SA	O	FSE	2		
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Plant Floor Drains (1DFR*) | FSK NO. 23-6B | SHEET 1 OF 1 | PAGE 25 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V78	3	P-5	C	4	CK	SA	O	FSE		Q	
V79	3	P-5	C	4	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Plant Floor Drains (1DFR*)	FSK NO. 23-6C	SHEET 1 OF 1	PAGE 26 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V87	3	R-5	C	4	CK	SA	O	FSE		Q	
V88	3	S-5	C	4	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Plant Floor Drain (1DFR*) | FSK NO. 23-6D | SHEET 1 OF 1 | PAGE 27 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V97	3	S-5	C	4	CK	SA	O	FSE		Q	
V98	3	T-5	C	4	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Plant Floor Drains (1DFR*)	FSK NO. 23-6E	SHEET 1 OF 1	PAGE 28 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V107	3	M-5	C	4	CK	SA	O	FSE		Q	
V108	3	M-5	C	4	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Plant Floor Drains (1DFR*)			FSK NO. 23-6F	SHEET 1 OF 1	PAGE 29 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V117	3	S-5	C	4	CK	SA	O	FSE		Q	
V118	3	T-5	C	4	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Plant Floor Drains (IDFR*)	FSK NO. 23-6G	SHEET 1 OF 1	PAGE 30 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V127	3	N-5	C	4	CK	SA	O	FSE		Q	
V128	3	P-5	C	4	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Plant Floor Drains (1DFR*) | FSK NO. 23-6P | SHEET 1 OF 1 | PAGE 31 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV 142	2	P-2	B	3/4	GA	SO	O	FSE	10	Q	-See Stroke Time
								FS		Q	Fail close
								PI		RF	
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Plant Floor Drains (1DFR*) | FSK NO. 23-6Q | SHEET 1 OF 1 | PAGE 32 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV 141	2	P-2	A	3/4	GA	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
								LR		RF	Drywell Leakage Test
AOV 101	2	Q-6	A	4	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail closed
								LR		RF	10CFR50 App J
								PI		RF	
V180	2	Q-7	C	1/2	CK	SA	C	FSE		Q	
								LR		RF	10CFR50 App J
AOV 102	2	U-6	A	4	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail closed
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Plant Floor Drains (1DFR*)	FSK NO. 23-6R	SHEET 1 OF 1	PAGE 33 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV 143	2	P-2	A	3/4	GA	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Turbine Plant Miscellaneous Drains (1B21*) | FSK NO. 32-5D | SHEET 1 OF 2 | PAGE 34 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F016	1	G-7	A	3	GA	MO	O	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F019	1	J-7	A	3	GA	MO	O	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F085	2	J-7	B	3	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
AOV F025	2	R-4	B	1	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
AOV F026	2	R-5	B	1	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Turbine Plant Miscellaneous Drains (1B21*) | FSK NO. 32-5-D | SHEET 2 OF 2 | PAGE 35 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F054	2	R-7	B	1	GL	AO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Turbine Plant Miscellaneous Drains (1B21*)	FSK NO. 32-5E	SHEET 1 OF 1	PAGE 36 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F067B	1	B-8	B	1.5	GL	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
MOV F067D	1	F-8	B	1.5	GL	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
MOV F067A	1	J-8	B	1.5	GL	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
MOV F067C	1	N-8	B	1.5	GL	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
MOV F086	2	N-8	B	3	GA	MO	O	FSE PI	10	Q RF	-Sec Stroke Time

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Air Startup Standby Diesel Generator (1EGA*) | FSK NO. 12-4A | SHEET 1 OF 1 | PAGE 37 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V102	3	H-5	C	1.5	CK	SA	C	FSE		Q	
RV6A	3	K-1	3/4	RV	SA	C	SP			RF	275 psig set point
RV5A	3	K-9	C	3/4	RV	SA	C	SP		RF	275 psig set point
V147	3	L-6	C	6	CK	SA	C	FSE		Q	
V146	3	L-7	C	6	CK	SA	C	FSE		Q	
V115	3	M-2	C	1.5	CK	SA	C	FSE		Q	
RV6C	3	Q-1	C	3/4	RV	SA	C	SP		RF	275 psig set point
RV5C	3	P-9	C	3/4	RV	SA	C	SP		RF	275 psig set point
SOVY11A	3	P-6	B	?	GA	SO	C	FSE	10	Q	-Sec Stroke Time
SOVX11A	3	P-7	B	?	GA	SO	C	FSE	10	Q	-Sec Stroke Time

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Air Startup Standby Diesel Gernerator (1EGA*) | FSK NO. 12-4B | SHEET 1 OF 1 | PAGE 38 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V126	3	H-6	C	1.5	CK	SA	C	FSE		Q	
RV6B	3	K-1	C	3/4	RV	SA	C	SP		RF	275 psig
RV5B	3	K-9	C	3/4	RV	SA	C	SP		RF	275 psig
V151	3	L-6	C	6	CK	SA	C	FSE		Q	
V152	3	L-7	C	6	CK	SA	C	FSE		Q	
137	3	M-2	C	1.5	CK	SA	C	FSE		Q	
RV6D	3	P-1	C	3/4	RV	SA	C	SP		RF	275 psig
RV5D	3	P-9	C	3/4	RV	SA	C	SP		RF	275 psig
SOVY11b	3	P-6	B	?	GA	SO	C	FSE	10	Q	-Sec Stroke Time
SOVX11B	3	N-7	B	?	GA	SO	C	FSE	10	Q	-Sec Stroke Time

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Standby Generator Fuel (1EGF*) | FSK NO. 8-9A | SHEET 1 OF 1 | PAGE 39 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V3	3	H-2	C	2	CK	SA	C	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Standby Generator Fuel (1EGF*)	FSK NO. 8-9B	SHEET 1 OF 1	PAGE 40 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V33	3	H-2	C	2	CK	SA	C	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Standby Generator Fuel (1EGF*)	FSK NO. 8-9C	SHEET 1 OF 1	PAGE 41 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V63	3	H-2	C	2	CK	SA	C	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Fire Protection Water (1FPW*) | FSK NO. 15-1E | SHEET 1 OF 1 | PAGE 42 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 122	3	J-2	A	6	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
								LR		RF	PVLCS Test
MOV 121	3	K-2	A	6	GA	MO	O	FSE	10	Q	31 Sec Stroke Time
								LR		RF	10CFR50 App J & PVLCS Test
								PI		RF	
V263	3	N-2	AC	6	CK	SA	C	FSE		Q	
								LR		RF	10CFR50 App J

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Feedwater (1B21*) | FSK NO. 6-1C | SHEET 1 OF 2 | PAGE 43 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F065B	2	B-2	A	20	GA	MO	O	FSE	3,10	CS	-Sec Stroke Time
								PI		RF	
								LR		RF	PVLCS Test
1FWS*MOV7B	2	C-2	A	20	GA	MO	O	FSE	3,10	CS	72 Sec Stroke Time
								LR		RF	10CFR50 App J & PVLCS Test
								PI		RF	
AOV F032B	1	G-2	AC	20	CK	AO	O	FSE	3	CS	
								PI		RF	
								LR		RF	10CFR50 App J
VF010B	1	H-2	AC	20	CK	SA	O	FSE	3	CS	
								LR		RF	10CFR50 App J
MOV F065A	2	B-8	A	20	GA	MO	O	FSE	3,10	CS	-Sec Stroke Time
								PI		RF	
								LR		RF	PVLCS Test
1FWS*MOV7A	2	B-8	A	20	GA	MO	O	FSE	3,10	cs	72 Sec Stroke Time
								LR		RF	10CFR50 App J & PVLCS Test
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Feedwater (1B21*) | FSK NO. 6-1C | SHEET 2 OF 2 | PAGE 44 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F032A	1	F-8	AC	20	CK	AO	O	FSE	3	CS	
								PI		RF	
								LR		RF	10CFR50 App J
VF010A	1	J-8	AC	20	CK	SA	O	FSE	3	CS	
								LR		RF	10CFR50 App J

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Control Building Air Conditioning (1HVC*)	FSK NO. 22-9A	SHEET 1 OF 1	PAGE 45OF140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 1A	3	J-3	B	24	BF	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
MOV 1B	3	K-3	B	24	BF	MO	O	FSE PI	10	Q RF	-Sec Stroke Time

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Control Building Chilled Water (1HVK*) | FSK NO. 22-12A | SHEET 1 OF 1 | PAGE 46 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV 45A	3	E-2	C	2	RV	SA	C	SP		RF	125 psig
MOV 10A	3	F-2	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 11A	3	G-4	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V48	3	F-4	C	2	CK	SA	C	FSE		Q	
V49	3	F-3	C	2	CK	SA	C	FSE		Q	
V33	3	L-5	C	6	CK	SA	C	FSE		Q	
V34	3	L-8	C	6	CK	SA	C	FSE		Q	
MOV 20A	3	N-5	B	6	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 20C	3	N-8	B	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Control Building Chilled Water (1HVK*)	FSK NO. 22-12B	SHEET 1OF1	PAGE 47OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV 45B	3	E-2	C	2	RV	SA	C	SP		RF	125 psig
MOV 10B	3	F-2	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 11B	3	G-4	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V97	3	F-4	C	2	CK	SA	C	FSE		Q	
V98	3	F-3	C	2	CK	SA	C	FSE		Q	
V82	3	L-5	C	6	CK	SA	C	FSE		Q	
V83	3	L-8	C	6	CK	SA	C	FSE		Q	
MOV 20B	3	N-5	B	6	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 20D	3	N-8	B	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Control Building Chilled Water (1HVK*) | FSK NO. 22-..2E | SHEET 1 OF 1 | PAGE 48 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV 50C	3	D-6	C	1/2	RV	SA	C	SP		RF	385 psig
RV 49C	3	E-6	C		RV	SA	C	SP		RF	285 psig
RV 48C	3	D-6	C		RV	SA	C	SP		RF	285 psig
RV 47C	3	F-6	C	1	RV	SA	C	SP		RF	185 psig
RV 32C	3	G-6	C	1	RV	SA	C	SP		RF	185 psig
RV 50A	3	L-6	C	1/2	RV	SA	C	SP		RF	385 psig
RV 49A	3	M-6	C		RV	SA	C	SP		RF	285 psig
RV 48A	3	L-6	C		RV	SA	C	SP		RF	285 psig
RV 47A	3	N-6	C	1	RV	SA	C	SP		RF	185 psig
RV 32A	3	P-6	C	1	RV	SA	C	SP		RF	185 psig

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Control Building Chilled Water (1HVK*) | FSK NO. 22-12F | SHEET 1 OF 1 | PAGE 49 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV 50D	3	D-6	C	1/2	RV	SA	C	SP		RF	385 psig
RV 49D	3	E-6	C		RV	SA	C	SP		RF	285 psig
RV 48D	3	E-6	C		RV	SA	C	SP		RF	285 psig
RV 47D	3	G-6	C	1	RV	SA	C	SP		RF	185 psig
RV 32D	3	G-6	C	1	RV	SA	C	SP		RF	185 psig
RV 50B	3	L-6	C	1/2	RV	SA	C	SP		RF	385 psig
RV 49B	3	M-6	C		RV	SA	C	SP		RF	285 psig
RV 48B	3	L-6	C		V	SA	C	SP		RF	285 psig
RV 47B	3	N-6	C	1	RV	SA	C	SP		RF	185 psig
RV 32B	3	P-6	C	1	RV	SA	C	SP		RF	185 psig

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Ventilation Chilled Water (1HVN*) | FSK NO. 22-14F | SHEET 1 OF 1 | PAGE 50 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 130	2	N-5	A	8	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	PVLCS Test
								PI		RF	
MOV 129	2	Q-5	A	8	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	PVLCS Test
								PI		RF	
MOV 128	2	N-6	A	8	GA	MO	O	FSE	10	Q	27.5 Sec Stroke Time
								LR		RF	10CFR50 App J & PVLCS Test
								PI		RF	
MOV 127	2	Q-6	A	8	GA	MO	O	FSE	10	Q	27.5 Sec Stroke Time
								LR		RF	10CFR50 App J & PVLCS Test
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Ventilation Chilled Water (1HVN*) | FSK NO. 22-14K | SHEET 1OF2 | PAGE 51 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V541	2	C-3	AC	8	CK	SA	O	FSE		Q	
								LR		RF	10CFR50 App J
MOV 102	2	C-4	A	8	GA	MO	O	FSE	10	Q	29 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
V1316	2	C-5	AC	3/4	CK	SA	C	FSE		Q	
								LR		RF	10CFR50 App J
MOV 22 B	3	E-6	B	6	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 22A	3	E-8	B	6	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V547	3	G-6	C	6	CK	SA	O	FSE		Q	
V546	3	G-8	C	6	CK	SA	O	FSE		Q	
V421	2	D-9	C	8	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Ventilation Chilled Water (1HVN*) | FSK NO. 22-14K | SHEET 2 OF 2 | PAGE 52 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V545	3	M-7	C	6	CK	SA	O	FSE		Q	
V544	3	M-11	C	6	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Plant Ventilation (1HVR*) | FSK NO. 22-1C | SHEET 1 OF 1 | PAGE 53 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV 165	2	H-6	A	36	BF	AO	O	FSE	10	Q	3 Sec Stroke Time
								FS		Q	Fail close
								LR		RF	10CFR50 App J
								PI		RF	
AOV 123	2	K-6	A	36	BF	AO	O	FSE	10	Q	3 Sec Stroke Time
								FS		Q	Fail close
								LR		RF	10CFR50 App J
								PI		RF	
AOV 125	2	M-6	A	24	BF	AO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								LR		RF	Drywell Leakage Test
								PI		RF	
AOV 147	2	M-6	A	24	BF	AO	C	FSE	10	Q	-See Stroke Time
								FS		Q	Fail close
								LR		RF	Drywell Leakage Test
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Plant Ventilation (1HVR*) | FSK NO. 22-1D | SHEET 1 OF 1 | PAGE 54 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV 148	2	C-6	A	24	BF	AO	C	FSE	10	Q	
								FS		Q	Fail close
								LR		RF	Drywell Leakage Test
								PI		RF	
AOV 123	2	D-6	A	24	BF	AO	C	FSE	10	Q	
								FS		Q	Fail close
								LR		RF	Drywell Leakage Test
								PI		RF	
AOV 128	2	F-6	A	36	BF	AO	O	FSE	10	Q	3 Sec Stroke Time
								FS		Q	Fail close
								LR		RF	10CFR50 App J
								PI		RF	
AOV 166	2	J-6	A	36	BF	AO	O	FSE	10	Q	3 Sec Stroke Time
								FS		Q	Fail close
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PL[illegible]

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Instrument Air System (1IAS*) | FSK NO. 12-1J | SHEET 1 OF 1 | PACE 55 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V78	2	M-6	AC	3	CK	SA	O	FSE	2		
								LR		RF	Drywell Leakage Test
V80	2	N-9	AC	3	CK	SA	O	FSE		Q	
								LR		RF	10CFR50 App J
MOV 106	2	Q-9	A	3	GA	MO	O	FSE	10	Q	17 Sec Stroke Time
								LR		RF	10CFR50 App J & PVLCS Test
								PI		RF	
MOV 107	2	R-9	A	3	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
								LR		PF	PVLCS Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Instrument Air System (1IAS*) | FSK NO. 12-1R | SHEET 1 OF 1 | PAGE 56 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV 38A	3	K-9	C	3/4	RV	SA	C	SP		RF	135 psig
RV 38B	3	F-9	C	3/4	RV	SA	C	SP		RF	135 psig
V514	3	H-9	AC	2	CK	SA	O	FSE		Q	
								LR		RF	Special Test
V515	3	L-9	AC	2	CK	SA	O	FSE		Q	
								LR		RF	Special Test
SOV 36A	3	L-10	B	2	GA	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
SOV 36B	3	H-10	B	2	GA	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Instrument Air System (IIAS*) | ISK NO. 12-1S | SHEET 1 OF 1 | PAGE 57 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV 46A	3	C-6	C	3/4	RV	SA	C	SP		RF	135 psig
RV 46B	3	F-6	C	3/4	RV	SA	C	SP		RF	135 psig
V608	3	D-6	AC	2	CK	SA	O	FSE		Q	
								LR		RF	Special Test
V609	3	G-6	AC	2	CK	SA	O	FSE		Q	
								LR		RF	Special Test
SOV 45A	3	D-6	B	2	GA	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
SOV 45B	3	G-6	B	2	GA	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Instrument Air System (1IAS*) | FSK NO. 12-1T | SHEET 1 OF 1 | PAGE 58 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV 42A	3	B-8	C	3/4	RV	SA	C	SP		RF	135 psig
RV 42B	3	G-8	C	3/4	RV	SA	C	SP		RF	135 psig
V562	3	D-6	AC	2	CK	SA	O	FSE		Q	
								LR		RF	Special Test
V563	3	E-6	AC	2	CK	SA	O	FSE		Q	
								LR		RF	Special Test
SOV 41A	3	D-8	B	2	GA	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
SOV 41B	3	E-8	B	2	GA	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Core Isolation Cooling (1E51*) | FSK NO. 27-6A | SHEET 1 OF 3 | PAGE 59 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F063	1	F-5	A	8	GA	MO	O	FSE	10	Q	5.1 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F076	1	F-6	A	3/4	GL	MO	C	FSE	10	Q	11 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F064	1	J-5	A	8	GA	MO	O	FSE	10	Q	5.1 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F013	1	N-3	A	6	GA	MO	C	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J & RX Coolant Pressure Boundary Test
								PI		RF	
AOV F065	1	K-3	AC	6	CK	AO	C	FSE	1	CS	
								LR		RF	10CFR50 App J & RX Coolant Pressure Boundary Test
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Core Isolation Cooling (1E51*) | FSK NO. 27-6A | SHEET 2 OF 3 | PAGE 60 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F066	1	B-2	C	6	CK	AO	C	FSE	1	CS	
								PI		RF	
MOV F019	2	K-7	A	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
1ICS*V21	2	N-7	C	2	CK	SA	C	FSE		Q	
MOV F078	2	K-8	A	2.5	GL	MO	O	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
VF081	2	L-8	C	1.5	CK	SA	C	FSE		Q	
VF079	2	M-8	C	1.5	CK	SA	C	FSE	Q		
MOV F077	2	N-9	A	1.5	GL	MO	O	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Core Isolation Cooling (1E51*) | FSK NO. 27-6A | SHEET 3 OF 3 | PAGE 61 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F068	2	N-9	A	12	GA	MO	O	FSE	10	Q	61 Sec Strcke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F031	2	K-11	A	6	GA	MO	C	FSE	10	Q	32 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
VF030	2	N-11	C	6	CK	SA	C	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Core Isolation Cooling (1E51*) | FSK NO. 27-6B | SHEET 1 OF 1 | PAGE 62 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV F090	2	A-5	C	3/4	RV	SA	C	SP		RF	1525 psig set point
MOV F022	2	B-4	B	4	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F059	2	B-5	B	4	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
1ICS*RV 130	2	G-2	C	3/4	RV	SA	C	SP		RF	1525 psig set point
MOV F046	2	K-2	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
RV F018	2	N-2	C	3/4	RV	SA	C	SP		RF	125 psig
RV F017	2	P-3	C	3/4	RV	SA	C	SP		RF	90 psig
MOV F010	2	E-8	B	6	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
VF011	2	K-8	C	6	CK	SA	C	FSE		Q	
VF061	2	M-7	C	1.5	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Core Isolation Cooling (1E51*)	FSK NO. 27-6C	SHEET 1 OF 1	PAGE 63 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F045	2	D-2	B	4	GL	MO	C	FSE PI	10	Q RF	-Sec Stroke Time
MOV C002	2	E-2	B	4	GA	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
VF040	2	C-7	C	12	CK	SA	C	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Containment Leakage Monitoring (1LMS*) | FSK NO. 33-1A | SHEET 1 OF 1 | PAGE 64 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V12	2	K-2	A	3/4	GA	MA	LC	LR		RF	10CFR50 App J
V14	2	J-2	A	3/4	GA	MA	LC	LR		RF	10CFR50 App J
V7	2	H-6	A	3/4	GA	MA	C	LR		RF	10CFR50 App J
V16	2	K-6	A	3/4	GA	MA	LC	LR		RF	10CFR50 App J
V3	2	H-6	A	3/4	GA	MA	LC	LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Penetration Valve Leakage Control System (1LSV*) | FSK NO. 27-29A | SHEET 1 OF 3 | PAGE 65 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V112	2	E-2	C	3/4	CK	SA	O	FSE		Q	
SOVY26A	2	E-2	B	3/4	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
SOVX26A	2	H-2	B	3/4	GL	SO	C	FSE	10	Q	-3ec Stroke Time
								FS		Q	Fail Open
								PI		RF	
RV 8A		L-1	C		RV	SA	C	SP		RF	140 psig
V114	2	K-2	C	1	CK	SA	C	FSE		Q	
V98	2	N-2	C	2	CK	SA	C	FSE		Q	
MOV 19A	2	Q-2	B	2	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Penetration Valve Leakage Control System (1LSV*) | FSK NO. 27-29A | SHEET 2 OF 3 | PAGE 660F 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V118	2	D-10	C	3/4	CK	SA	O	FSE		Q	
SOVY26B	2	E-10	B	3/4	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
SOVX26B	2	#-9	B	[illegible]	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail open
								PI		RF	
RV 8B		L-6	C		RV	SA	C	SP		RF	140 psig
V120	2	L-7	C	1	CK	SA	C	FSE		Q	
V82	2	M-7	C	2	CK	SA	C	FSE		Q	
MOV 19B	2	Q-7	B	2	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Penetration Valve Leakage Control System (1LSV*) | FSK NO. 27-29A | SHEET 3 OF 3 | PAGE 67 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV 44A		E-4	B		GA	AO	40	FSE	10	Q	-Sec Stroke Time
								PI		RF	
AOV 45A		C-6	B		SC	AO	40	FSE		Q	
								PI		RF	
AOV 44B		G-9	B		GA	AO	40	FSE	10	Q	-Sec Stroke Time
								PI		RF	
AOV 45B		G-9	B		SC	AO	40	FSE		Q	
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Penetration Valve Leakage Control System (1LSV*)	FSK NO. 27-29B	SHEET 1 OF 1	PAGE 68 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 11B	2	C-2	B	1	GL	MO	C	FSE PI	10	Q RF	-Sec Stroke Time
V72	2	E-3	C	1	CK	SA	C	FSE	4	CS	
V76	2	F-3	C	1	CK	SA	C	FSE	4	CS	
V36	2	E-4	C	1	CK	SA	C	FSE	4	CS	
V90	2	F-4	C	1	CK	SA	C	FSE	4	CS	
V42	2	E-6	C	1	CK	SA	C	FSE	4	CS	
V46	2	F-6	C	1	CK	SA	C	FSE	4	CS	
V12	2	E-7	C	1	CK	SA	C	FSE	4	CS	
V35	2	F-7	C	1	CK	SA	C	FSE	4	CS	
V48	2	E-9	C	1	CK	SA	C	FSE	4	CS	
V18	2	E-10	C	1	CK	SA	C	FSE	4	CS	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Penetration Valve Leakage Control System (1LSV*) | FSK NO. 27-29C | SHEET 1 OF 1 | PAGE 69 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 11A	2	C-3	B	1	GL	MO	C	FSE PI	10	Q RF	-Sec Stroke Time
V50	2	E-3	C	1	CK	SA	C	FSE	4	CS	
V20	2	E-4	C	1	CK	SA	C	FSE	4	CS	
V52	2	E-6	C	1	CK	SA	C	FSE	4	CS	
V22	2	E-7	C	1	CK	SA	C	FSE	4	CS	
V54	2	E-9	C	1	CK	SA	C	FSE	4	CS	
V24	2	E-10	C	1	CK	SA	C	FSE	4	CS	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Penetration Valve Leakage Control System (1LVS*) | FSK NO. 27-29D | SHEET 1 OF 2 | PAGE 70 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 15A	2	B-5	B	1	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 15B	2	C-5	B	1	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 16A	2	B-6	B	1	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 16B	2	C-6	B	1	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 13A	2	D-4	B	1	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 13B	2	D-2	B	1	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V56	2	F-2	C	1	CK	SA	C	FSE	4	CS	
V26	2	F-3	C	1	CK	SA	C	FSE	4	CS	
V58	2	F-4	C	1	CK	SA	C	FSE	4	CS	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Penetration Valve Leakage Control System (1LVS*) | FSK NO. 27-29D | SHEET 2 OF 2 | PAGE 71 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V28	2	F-5	C	1	CK	SA	C	FSE	4	CS	
V60	2	F-7	C	1	CK	SA	C	FSE	4	CS	
V30	2	F-8	C	1	CK	SA	C	FSE	4	CS	
V62	2	F-9	C	1	CK	SA	C	FSE	4	CS	
V32	2	F-10	C	1	CK	SA	C	FSE	4	CS	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Main Steam Isolation Valve Seal System (1E33*) | FSK NO. 27-20A | SHEET 1 OF 2 | PAGE 72 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV F014	2	E-3	B	2	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
RV F003	2	G-1	C	3/4	RV	SA	C	SP		RF	200 psig set point
VF004	2	G-2	C	2	CK	SA	C	FSE		Q	
MOV F005	2	H-2	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F006	2	J-2	B	2	GL	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F007	2	M-2	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F0008	1	M-3	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Main Steam Isolation Valve Seal System (1E33*) | FSK NO. 27 20 | SHEET 2 OF 2 | PAGE 73 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F027A	2	N-4	B	3/4	GL	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
MOV F027B	2	N-4	B	3/4	GL	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
MOV F027C	2	P-4	B	3/4	GL	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
MOV F027D	2	Q-4	B	3/4	GL	MO	O	FSE PI	10	Q RF	-Sec Stroke Time

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Main Steam Isolatin Valve Seal System (1E33*) | FSK NO. 27-20B | SHEET 1 OF 1 | PAGE 74 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV F034	2	E-3	B	2	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
RV F023	2	G-1	C	3/4	RV	SA	C	SP		RF	200 psig set point
VF024	2	H-2	C	2	CK	SA	C	FSE		Q	
MOV F025	2	J-2	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F026	2	K-2	B	2	GL	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F027	2	N-2	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F028	2	N-3	B	2	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Main Steam (1B21*) | FSK NO. 3-1A | SHEET 1 OF 1 | PAGE 75 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F022A	1	K-8	A	24	GL	AO	O	PSE		Q	
								FSE	10	CS	Stroke shall be > 3 sec but < 5 sec
								FS		CS	Fail close
								LR		RF	PVLCS Test
								PI		RF	
VF024	3	G-6	C	2	CK	SA	C	FSE	?		

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Main Steam (1B21*) | FSK NO. 3-1B | SHEET 1 OF 2 | PAGE 76 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
VF029B	3	E-1	C	2	CK	SA	C	FSE	?		
VF029D	3	E-3	C	2	CK	SA	C	FSE	?		
VF029A	3	E-5	C	2	CK	SA	C	FSE	?		
VF029C	3	E-7	C	2	CK	SA	C	FSE	?		
AOV F028A	1	J-6	A	24	GL	AO	O	PSE		Q	
								FSE	10	CS	Stroke shall be >3 sec but <5 sec
								FS		CS	Fail close
								LR		RF	PVLCS Test
								PI		RF	
AOV F028B	1	J-2	A	24	GL	SO	O				Test requirement is same as AOV F028A
AOV F028C	1	J-8	A	24	GL	AO	O				Test requirement is same as AOV F028A
AOV F028D	1	J-4	A	24	GL	AO	O				Test requirement is same as AOV F028A
MOV F098A	2	P-6	B	24	GA	MO	O	FSE	5,10	CS	-Sec Stroke Time
								LR		RF	PVLCS Test
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Main Steam (1B21*) | FSK NO. 3-1B | SHEET 2 OF 2 | PAGE 77 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F98B	2	P-2	B	24	GA	MO	O		5,10		Test requirement is same as MOV F98A
MOV F98C	2	P-8	B	24	GA	MO	O		5,10		Test requirement is same as MOV F098A
MOV F98D	2	p-4	B	24	GA	MO	O		5,10		Test requirement is same as MOV F098A

INSERVICE TESTING PLAN
ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Main Steam (1B21*) | FSK NO. 3-1G | SHEET 1 OF 1 | PAGE 78 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F022B	1	K-8	A	24	GL	SO	O	PSE		Q	
								FSE	10	CS	Stroke shall be > 3 sec but < 5 sec
								FS		RF	Fail close
								LR		RF	FVLCS Test
								PI		RF	
VF024B	3	G-5	C	2	CK	SA	C	FSE	?		

INSERVICE TESTING PLAN

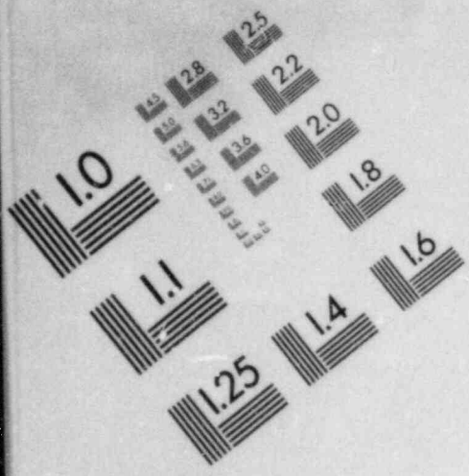
ISI CLASS 1,2 & 3 VALVES

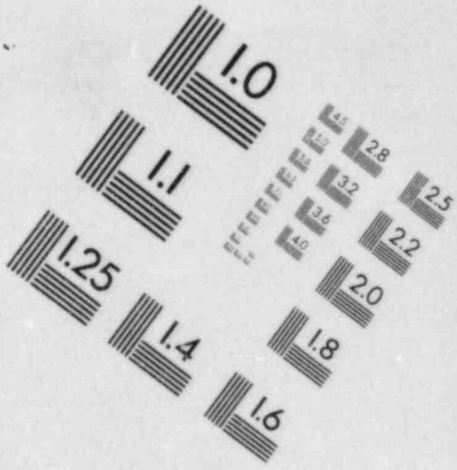
RIVER BEND STATION

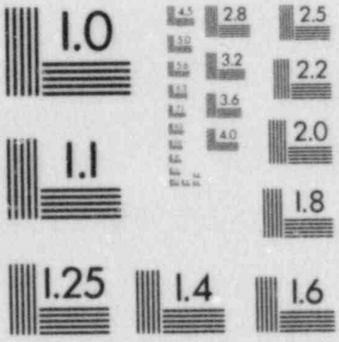
SYSTEM: Main Steam (1B21*) | FSK NO. 3-1H | SHEET 1 OF 1 | PAGE 79 OF 140

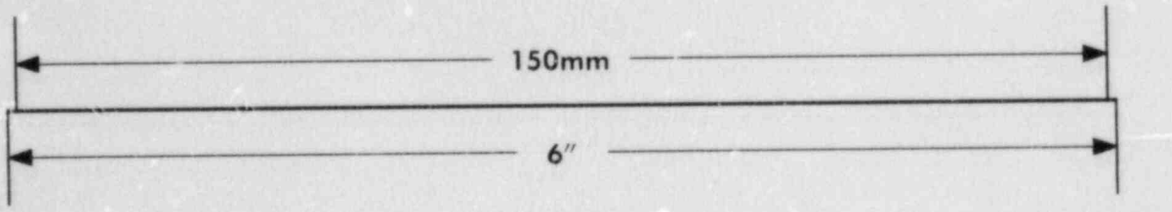
VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F022D	1	K-8	A	24	GL	AO	O	PSE		Q	
								FSE	10	CS	Stroke shall be > 3 sec but < 5 sec
								FS		CS	Fail close
								LR		RF	PVLCS Test
								PI		RF	
VF024D	1	F-5	C	8	CK	SA	C	FSE	?		

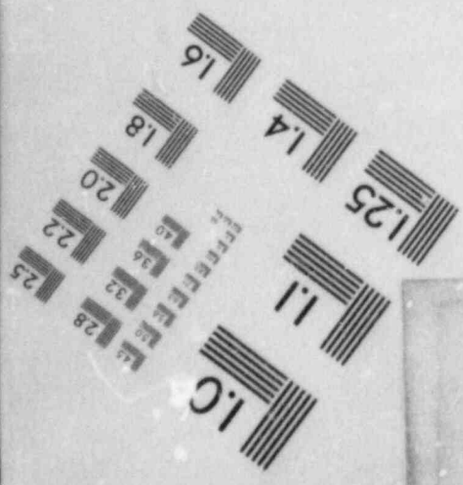
IMAGE EVALUATION TEST TARGET (MT-3)

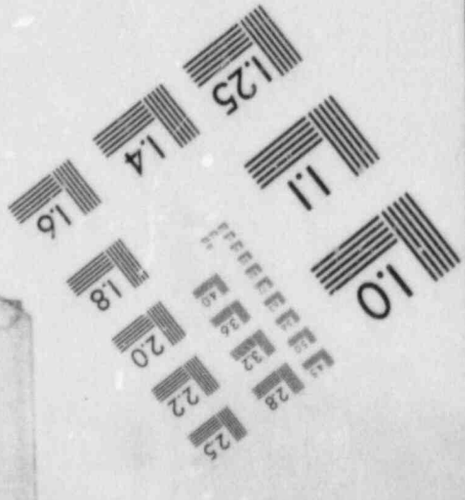












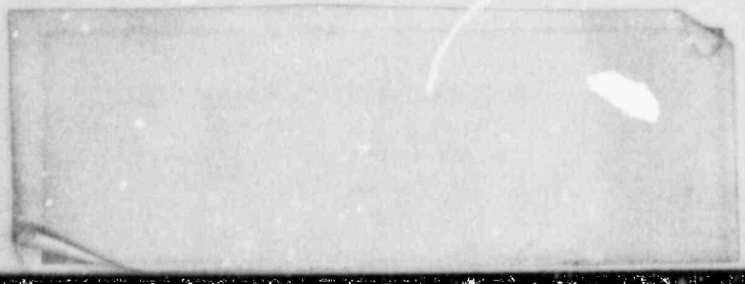
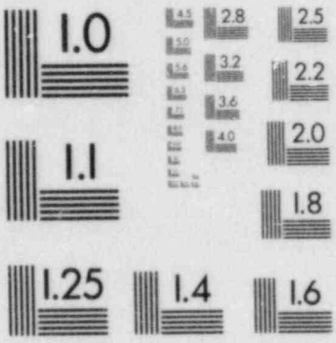
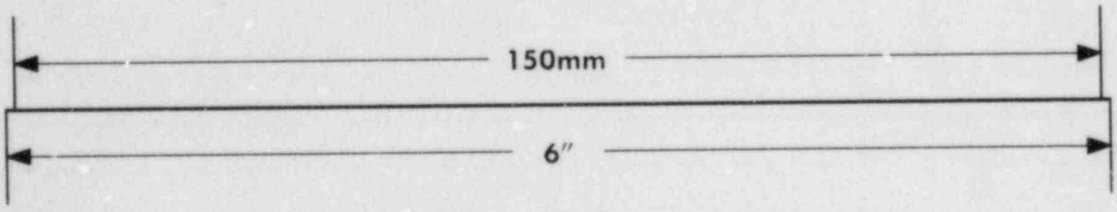


IMAGE EVALUATION
TEST TARGET (MT-3)





INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Main Steam (1B21*) | FSK NO. 3-1J | SHEET 1 OF 1 | PAGE 80 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F022C	1	K-8	A	24	GL	AO	O	PSE		Q	
								FSE	10	CS	Stroke shall be > 3 sec but < 5 sec
								FS		CS	Fail close
								LR		RF	PVLCS Test
								PI		RF	
VF024C	3	F-6	C	2	CK	SA	C	FSE	?		

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Coolant (Recirculation, 1B33*)	FSK NO. 25-1A	SHEET 1 OF 1	PAGE 81 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
HYV F060A	1	N-5	B	20	PG	HY	O	FSE PI	10	Q RF	Tested per IWV-3414, Valves in regular use

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Coolant (Recirculation, 1B33*) | FSK NO. 25-13 | SHEET 1 OF 1 | PAGE 82 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
HYV F060B	1	N-5	B	20	PG	HY	O	FSE PI	10	Q RF	Tested per IWV-3414, Valves in regular use

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Coolant (Recirculation, 1B33*) | FSK NO. 25-1G | SHEET 1 OF 1 | PAGE 83 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F019	2	N-1	A	3/4	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
								LR		RF	?
AOV F020	2	K-1	A	3/4	GL	AO	O		10		Test requirement is same as AOV F019

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Coolatn (Recirculation, 1RCS*) | FSK NO. 25-1H | SHEET 1 OF 1 | PAGE 84 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 58A	2	K-1	A	1	GL	MO	O	FSE	10,?		-Sec Stroke Time
								LR		RF	Drywell Leakage Test
MOV 59A	2	K-2	A	1	GL	MO	O	FSE	10,?		-Sec Stroke Time
								LR		RF	Drywell Leakage Test
MOV 60A	2	K-5	A	1/2	GL	MO	O	FSE	10,?		-Sec Stroke Time
								LR		RF	Drywell Leakage Test
MOV 61A	2	K-6	A	3/4	GL	MO	O	FSE	10,?		-Sec Stroke Time
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Coolant (Recirculation, 1RCS*) | FSK NO. 25-1J | SHEET 1 OF 1 | PAGE 85 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 58B	2	K-1	A	1	GL	MO	O	FSE	10,?		-Sec Stroke Time
								LR		RF	Drywell Leakage Test
MOV 59B	2	K-2	A	1	GL	MO	O	FSE	10,?		-Sec Stroke Time
								LR		RF	Drywell Leakage Test
MOV 60B	2	K-5	A	1/2	GL	MO	O	FSE	10,?		-Sec Stroke Time
								LR		RF	Drywell Leakage Test
MOV 61B	2	K-6	A	3/4	GL	MO	O	FSE	10,?		-Sec Stroke Time
								LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Control Rod Drive Hydraulic (1C11*)	FSK NO. 36-1B	SHEET 1 OF 1	PAGE 86 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
VF122	2	B-2	AC	2	CK	SA	O	FSE LR	6	CS RF	10CFR50 App J

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Control Rod Drive Hydraulic (1C11*) | FSK NO. 36-1F | SHEET 1 OF 1 | PAGE 87 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
114	2	G-3	C		CK	SA	C	FSE	?		Typical of 145
115	2	K-7	AC		CK	SA	C	FSE	?		Typical of 145
								LR	?		
138	2	K-7	AC		CK	SA	O	FSE	?		Typical of 145
								LR	?		
126	2	K-6	B		GA	AO	C	FSE	?		Typical of 145
127	2	H-3	B		GA	AO	C	FSE	?		Typical of 145

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Control Rod Drive Hydraulic (1C11*) | FSK NO. 36-1G | SHEET 1 OF 1 | PAGE 88 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F010	2	N-1	B	1	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
AOV F180	2	P-1	B	1	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Control Rod Drive Hydraulic (1C11*)	FSK NO. 36-1J	SHEET 1 OF 1	PAGE 89 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F083	2	P-5	A	2	GL	MO	O	FSE	6,10	CS	10 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Control Rod Drive Hydraulic (1C11*) | FSK NO. 36-1K | SHEET 1 OF 1 | PAGE 90 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F011	2	J-8	B	2	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
AOV F1 1	2	K-8	B	2	GL	AO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	

INSERVICE TESTING PLAN
ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | FSK NO. 27-7A | SHEET 1 OF 2 | PAGE 91 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV F041C	1	G-2	AC	10	CK	AO	C	FSE	1	CS	
								LR		RF	10CFR50 App J & RX Coolant Pressure Boundary Test
								PI		RF	
AOV F041B	1	G-5	AC	10	CK	AO	C	FSE	1	CS	
								LR		RF	RX Coolant Pressure Boundary Test
								PI		RF	
MOV F042B	1	K-5	A	10	GA	MO	C	FSE	10	Q	27 Sec Stroke Time
								LR		RF	Tested in accordance with 10CFR50 App J & RX Coolant Pressure Boundary Test
								PI		Q	
MOV F042C	1	P-3	A	10	GA	MO	C		10		Test requirement is same as Mov F042B
MOV F037A	2	L-7	A	10	GL	MO	C	FSE	10	Q	68 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F037B	2	M-6	A	10	GL	MO	C		10		Test requirement same as MOV F037A
VF099B	2	N-6	A	8	GL	MA	C	LR		RF	10CFR50 App J

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | FSK NO. 27-7A | SHEET 2 OF 2 | PAGE 92 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F027B	2	P-5	A	10	GA	MO	O	FSE	10	Q	24 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
1RHS*V64	2	N-8	C	14	CK	SA	C	FSE		Q	
1RHS*V65	2	N-9	C	14	CK	SA	C	FSE		Q	
MOV F004B	2	N-11	A	20	GA	MO	O	FSE	10	Q	87 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F105	2	Q-10	A	20	GA	MO	O	FSE	10	Q	92.5 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | FSK NO. 27-7B | SHEET 1 OF 1 | PAGE 93 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F006B	2	D-7	B	16	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
RV F017B	2	E-5	C	3/4	RV	SA	C	SP		RF	200 psig set point
MOV F064B	2	L-6	B	4	GA	MO	C	FSE	10	Q	6 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		Q	
VF084B	2	N-4	C	1.5	CK	SA	O	FSE		Q	
VF085B	2	N-6	C	1.5	SC	SA	O	FSE		Q	
VF031B	2	M-7	C	14	CK	SA	C	FSE			
VF046B	2	L-2	C	4	CK	SA	C	FSE		Q	
RV F030	2	L-8	C	3/4	RV	SA	C	SP		RF	200 psig set point

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | FSK NO. 27-7C | SHEET 1 OF 2 | PAGE 94 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F047B	2	B-4	B	14	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F073B	2	F-2	A	2	GL	MO	C	FSE	10	Q	52 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F048B	2	G-2	b	14	GL	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F003B	2	L-5	B	14	GL	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F011B	2	J-2	B	4	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
VF054B	2	K-2	C	4	CK	SA	C	FSE		Q	
MOV F026B	2	M-1	B	4	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
RV F036	2	P-1	AC	6	RV	SA	C	SP		RF	75 psig set point
								LR		RF	10CFR50 App J

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | FSK NO. 27-7C | SHEET 2 OF 2 | PAGE 95 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F094	3	P-4	B	10	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F096	2	M-4	B	10	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
AOV F098	2	L-4	C	10	CK	AO	C	FSE		Q	
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | PSK NO. 27-7D | SHEET 1 OF 1 | PAGE 96 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV F101	2	C-7	C	3/4	RV	SA	C	SP		RF	150 psig set point
RV F025C	2	D-2	C	1.5	RV	SA	C	SP		RF	500 psig set point
MOV F021	2	E-4	B	14	GL	MO	C	FSE	10	Q	84 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F064C	2	J-6	B	4	GA	MO	C	FSE	10	Q	6 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
VF084C	2	L-9	C	1.5	CK	SA	O	FSE		Q	
VF085C	2	M-9	C	1.5	SC	SA	O	FSE		Q	
VF046C	2	G-6	C	4	CK	SA	C	FSE		Q	
VF031C	2	L-8	C	14	CK	SA	C	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | FSK NO. 27-7E | SHEET 1 OF 2 | PAGE 97 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F027A	2	D-2	A	10	GA	MO	O	FSE	10	Q	24 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F042A	1	J-2	A	10	GA	MO	C	FSE	10	Q	27 Sec Stroke Time
								LR		RF	10CFR50 App J & RX Coolant Pressure Boundary Test
								PI		RF	
AOV F041A	1	N-2	AC	10	CK	AO	C	FSE	1	CS	
								LR		RF	RX Coolant Pressure Boundary Test
								PI		RF	
VF099A	2	H-4	A	8	GL	MA	C	LR		RF	10CFR50 App J
MOV F023	1	D-4	A	4	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								LR		RF	RX Coolant Pressure Boundary Test
								PI		RF	
VF019	1	E-4	C	4	CK	SA	C	FSE		Q	
MOV F008	1	D-5	A	18	GA	MO	C	FSE	10	Q	39 Sec Stroke Time
								LR		RF	Tested in accordance with 10CFR50 App J & RX Coolant Pressure Boundary Test
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | FSK NO. 27-7E | SHEET 2 OF 2 | PAGE 98 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F009	1	N-7	A	18	GA	MO	C		10		Test requirement is same as MOV F008
1RHS*V34	2	F-7	C	14	CK	SA	C	FSE		Q	
MOV F004A	2	D-9	A	20	GA	MO	O	FSE	10	Q	87 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
VF046A	2	F-6	C	4	CK	SA	C	FSE		Q	
1RHS*V240	1	P-7	AC	1	CK	SA	C	FSE	?		
								LR		RF	Reactor Coolant Pressure Boundary Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | FSK NO. 27-7F | SHEET 1 OF 2 | PAGE 99 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F006A	2	P-8	B	16	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
RV F005	2	N-7	C	3/4	RV	SA	C	SP		RF	200 psig set point
RV F017A	2	M-9	C	3/4	RV	SA	C	SP		RF	200 psig set point
MOV F064A	2	F-8	A	4	GA	MO	C	FSE	10	Q	6 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
VF031A	2	D-8	C	14	CK	SA	C	FSE		Q	
VF084A	2	C-6	C	1.5	CK	SA	O	FSE		Q	
VF085A	2	C-7	C	1.5	CK	SA	O	FSE		Q	
MOV F048A	2	B-3	B	14	GL	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F049	2	F-1	B	6	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F040	2	E-1	B	6	GL	MO	C		10		Test Requirement is same as MOV F049

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | FSK NO. 27-7F | SHEET 2 OF 2 | PAGE 100OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F024A	2	G-3	A	14	GA	MO	C	FSE	10	Q	60 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
RV F025A	2	J-5	C	3/4	RV	SA	C	SP		RF	500 psig set point
MOV F053A	2	L-2	B	10	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
VF050A	2	P-2	C	10	CK	SA	C	FSE	7	CS	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*) | FSK NO. 27-7G | SHEET 1 OF 2 | PAGE 1010F 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F047A	2	M-7	B	14	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F003A	2	E-3	B	14	GL	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F073A	2	E-4	A	2	GL	MO	C	FSE	10	Q	52 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F011A	2	E-2	A	4	GL	MO	C	FSE	10	Q	28 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F026A	2	E-1	B	4	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
VF054A	2	C-1	C	4	CK	SA	C	FSE		Q	
MOV F087A	2	K-1	B	8	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Residual Heat Removal (1E12*)	FSK NO. 27-7G	SHEET 2 OF 2	PAGE 102 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F052A	2	L-2	B	8	GL	MO	C	FSE PI	10	Q RF	-Sec Stroke Time
1RHS*RV3A	2	L-4	C	4	RV	SA	C	SP		RF	485 psig set point
RV F055A	2	N-3	C	4	RV	SA	C	SP		RF	500 psig set point
VF103A	2	P-6	C	3/4	CK	SA	C	FSE		Q	
VF104A	2	Q-6	C	3/4	CK	SA	C	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Residual Heat Removal System (1E12*) | FSK NO. 27-7H | SHEET 1 OF 1 | PAGE 103 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F052B	2	B-3	B	8	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F087B	2	D-6	B	8	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
1RHS*RV3B	2	F-7	C	4	RV	SA	C	SP		RF	485 psig set point
RV F055B	2	H-7	C	4	RV	SA	C	SP		RF	500 psig set point
VF104B	2	H-5	C	3/4	CK	SA	C	FSE		Q	
VF103B	2	H-5	C	3/4	CK	SA	C	FSE		Q	
VF050B	2	K-3	C	10	CK	SA	C	FSE	7	CS	
MOV F053B	2	M-3	B	10	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
RV F025	2	N-4	C	1.5	RV	SA	C	SP		RF	500 psig set point
MOV F024	2	P-7	A	14	GA	MO	C	FSE	10	Q	60 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Service Air System (1SAS*) | FSK NO. 12-2G | SHEET 1 OF 1 | PAGE 104 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 103	2	J-9	B	4	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 102	2	K-9	A	4	GA	MO	O	FSE	10	Q	20 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
V486	2	N-9	AC	4	CK	SA	O	FSE		Q	
								LR		RF	10CFR50 App J
V487	2	M-3	AC	4	CK	SA	C	LR	2	RF	Drywell Leakage Test
V489	2	P-3	A	4	GA	MA	C	LR		RF	Drywell Leakage Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Fuel Pool Cooling and Cleanup (1SFC*) | FSK NO. 34-2C | SHEET 1 OF 2 | PAGE 105OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 121	2	D-5	A	8	GA	MO	O	FSE	10	Q	39 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV 139	2	E-5	A	8	GA	MO	O		10		Test requirement is same as MOV 121
V351	2	E-5	AC	3/4	CK	SA	C	FSE	?		
								LR		RF	10CFR50 App J
MOV 122	2	D-7	A	12	GA	MO	C	FSE	10	Q	59 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV 120	2	E-7	A	12	GA	MO	C		10		Test requirement is same as MOV 122
V350	2	E-7	AC	3/4	CK	SA	C	FSE	?		
								LR		RF	10CFR50 App J
MOV 119	2	D-9	A	12	GA	MO	O	FSE	10	Q	68 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Fuel Pool Cooling and Cleanup (ISFC*)	FSK NO. 34-2C	SHEET 2 OF 2	PAGE 106OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V101	2	E-9	AC	12	CK	SA	O	FSE LR		Q RF	10CFR50 App J

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Standby Liquid Control (1C41*) | FSK NO. 27-16 | SHEET 1 OF 1 | PAGE 107 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F001A	2	F-5	B	3	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV F001B	2	F-8	B	3	GL	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
RV F029A	2	J-4	C	1.5	RV	SA	C	SP		RF	1400 psig set point
RV F029B	2	J-2	C	1.5	RV	SA	C	SP		RF	1400 psig set point
VF033A	2	K-4	C	1.5	CK	SA	C	FSE	?	CS	(see pump RR)
VF033B	2	K-7	C	1.5	CK	SA	C	FSE	?	CS	(see pump RR)
VEX F004A	1	N-4	D	1.5	XP	XP	C	ET		RF	
VEX F004B	1	N-7	D	1.5	XP	XP	C	ET		RF	
VF006	1	Q-7	C	1.5	CK	SA	C	FSE	?	RF	
VF007	1	R-7	C	1.5	CK	SA	C	FSE	?	RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Plant Sampling System (1SSR*) | FSK NO. 21-2D | SHEET 1 OF 1 | PAGE 108OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV 130	2	C-2	A	1/2	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
SOV 131	2	E-2	A	1/2	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
SOV 133	2	F-4	B	3/4	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
SOV 134	2	F-5	B	3/4	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
SOV 139	2	M-7	B	1	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
SOV 140	2	M-8	B	1	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V705	2	N-7	C	1	CK	SA	C	FSE		Q	
V706	2	P-8	C	1	CK	SA	C	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Main Steam Safety and Relief Valve (1B21*) | FSK NO. 32-8A | SHEET 1 OF 3 | PAGE 109 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV F041D	1	C-1	BC	8X10	RV	AO	C	FSE	?	CS	
						SA		SP		RF	1165 psig
								PI		RF	
RV F047D	1	E-1	C	8X10	RV	SA	C	SP		RF	1180 psig
								PI		RF	
RV F051D	1	L-1	C	8X10	RV	SA	C	SP		RF	1190 psig
								PI		RF	
RV F047B	1	D-3	C	8X10	RV	SA	C	SP		RF	1180 psig
								PI		RF	
RV F041B	1	F-3	BC	8X10	RV	AO	C	FSE	?	CS	
						SA		SP		RF	1165 psig
								PI		RF	
RV F051B	1	G-3	C	8X10	RV	SA	C	SP		RF	1190 psig
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Main Steam Safety and Relief Valves (1B21*) | FSK NO. 32-8A | SHEET 2 OF 3 | PAGE 110 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV F041F	1	J-3	BC	8X10	RV	AO	C	FSE		CS	
						SA		SP		RF	1165 psig
								PI		RF	
RV F047F	1	K-3	C	8X10	RV	SA	C	SP		RF	1180 psig
								PI		RF	
VF037D	3	C-4	C	10	CK	SA	C	FSE	8	CS	
VF037J	3	E-4	C	10	CK	SA	C	FSE	8	CS	
VF037L	3	F-4	C	10	CK	SA	C	FSE	8	CS	
VF037B	3	G-4	C	10	CK	SA	C	FSE	8	CS	
VF037N	3	H-4	C	10	CK	SA	C	FSE	8	CS	
VF037E	3	J-4	C	10	CK	SA	C	FSE	8	CS	
VF037M	3	L-4	C	10	CK	SA	C	FSE	8	CS	
VF037R	3	M-3	C	10	CK	SA	C	FSE	8	CS	
								sp	8	RF	.2 psid
VF078D		C-5		10	CK	SA	C	FSE	8	CS	
VF078J	3	E-5	C	10	CK	SA	C	FSE	8	CS	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Main Steam Safety and Relief Valves (1B21*) | FSK NO. 32-8A | SHEET 3 OF 3 | PAGE 111 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
VF078L	3	F-5	C	10	CK	SA	C	FSE	8	CS	
VF078B	3	G-5	C	10	CK	SA	C	FSE	8	CS	
VF078N	3	H-5	C	10	CK	SA	C	FSE	8	CS	
VF078E	3	J-5	C	10	CK	SA	C	FSE	8	CS	
VF078M	3	L-5	C	10	CK	SA	C	FSE	8	CS	
VF078R	3	M-4	C	10	CK	SA	C	FSE	8	CS	
								SP	8	RF	.2 psid

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Main Steam Safety and Relief Valves (1B21*) | FSK NO. 32-8B | SHEET 1 OF 3 | PAGE 112 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV F041A	1	C-1	C	8X10	RV	SA	C	SP		RF	1165 psig
								PI		RF	
RV F047A	1	E-1	BC	8X10	RV	AO	C	FSE	?	CS	
						SA		SP		RF	1180 psig
								PI		RF	
RV F041C	1	C-3	BC	8X10	RV	AO	C	FSE	?	CS	
						SA		SP		RF	1165 psig
								PI		RF	
RV F051C	1	E-3	C	8X10	RV	SA	C	SP		RF	1190 psig
								PI		RF	
RV F041G	1	G-1	C	8X10	RV	SA	C	SP		RF	1165 psig
								PI		RF	
RV F047C	1	H-3	BC	8X10	RV	AO	C	FSE	?	CS	
						SA		SP		RF	1180 psig
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Main Steam Safety and Relief Valves (1B21*) | FSK NO. 32-8B | SHEET 2 OF 3 | PAGE 113 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV F041L	1	J-3	C	8X10	RV	SA	C	SP		RF	1165 psig
								PI		RF	
RV F051G	1	K-3	BC	8X10	RV	AO	C	FSE	?	CS	
						SA		SP		RF	1190 psig
								PI		RF	
VF037C	3	D-6	C	10	CK	SA	C	FSE	8	CS	
VF037A	3	D-6	C	10	CK	SA	C	FSE	8	CS	
VF037P	3	F-6	C	10	CK	SA	C	FSE	8	CS	
								SP	8	RF	.2 psid
VF037H	3	F-6	C	10	CK	SA	C	FSE	8	CS	
VF037F	3	H-6	C	10	CK	SA	C	FSE	8	CS	
VF037K	3	J-6	C	10	CK	SA	C	FSE	8	CS	
VF037G	3	L-5	C	10	CK	SA	C	FSE	8	CS	
VF037S	3	M-4	C	10	CK	SA	C	FSE	8	CS	
VF078C	3	M-10	C	10	CK	SA	C	FSE	8	CS	
VF078A	3	D-6	C	10	CK	SA	C	FSE	8	CS	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Main Steam Safety and Relief Valves (1B21*) | FSK NO. 32-8B | SHEET 3 OF 3 | PAGE 114OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
VF078P	3	F-6	C	10	CK	SA	C	FSE	8	CS	
								SP	8	RF	.2 psid
VF078H	3	F-6	C	10	CK	SA	C	FSE	8	CS	
VF078F	3	H-6	C	10	CK	SA	C	FSE	8	CS	
VF078K	3	J-6	C	10	CK	SA	C	FSE	8	CS	
VF078G	3	L-5	C	10	CK	SA	C	FSE	8	CS	
VF078S	3	M-4	C	10	CK	SA	C	FSE	8	CS	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Main Steam Safety and Relief Valves (1B21*) | FSK NO. 32-8C | SHEET 1 OF 1 | PAGE 115 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
1SVV*V121	2	B-5	C	1.5	CK	SA	C	FSE		Q	
1SVV*MOV1A	2	E-5	A	1.5	GL	MO	O	FSE	10	Q	16 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
1SVV*V31	2	H-5	AC	1.5	CK	SA	O	FSE		Q	
								LR		RF	10CFR50 App J
VF036A	2	L-2	C	1.5	CK	SA	O	FSE	9	CS	
VF036F	2	L-3	C	1.5	CK	SA	O	FSE	9	CS	
VF036G	2	L-4	C	1.5	CK	SA	O	FSE	9	CS	
VF036P	2	L-5	C	1.5	CK	SA	O	FSE	9	CS	
VF039C	2	L-6	AC	1.5	CK	SA	O	FSE	9	CS	
								LR		RF	Special Test
VF039H	2	L-7	AC	1.5	CK	SA	O	FSE	9	CS	
								LR		RF	Special Test
VF039K	2	L-8	AC	1.5	CK	SA	O	FSE	9	CS	
								LR		RF	Special Test
VF039S	2	L-9	AC	1.5	CK	SA	O	FSE	9	CS	
								LR		RF	Special Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Main Steam Safety and Relief Valves (1B21*) | FSK NO. 32-8D | SHEET 1 OF 1 | PAGE 116OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
1SVV*V128	2	B-5	C	1.5	CK	SA	O	FSE		Q	
1SVV*MOV1B	2	E-5	A	1.5	GL	MO	O	FSE	10	Q	16 Sec Stroke Time
								L		RF	10CFR50 App J
								PI		RF	
1SVV*V9	2	G-5	AC	1.5	CK	SA	O	FSE		Q	
								LR		RF	10CFR50 App J
VF036J	2	L-2	C	1.5	CK	SA	O	FSE	9	CS	
VF036L	2	L-3	C	1.5	CK	SA	O	FSE	9	CS	
VF036M	2	L-4	C	1.5	CK	SA	O	FSE	9	CS	
VF036N	2	L-5	C	1.5	CK	SA	O	FSE	9	CS	
VF036R	2	L-6	C	1.5	CK	SA	O	FSE	9	CS	
VF039B	2	L-7	AC	1.5	CK	SA	O	FSE	9	CS	
								LR		RF	Special Test
VF039D	2	L-8	AC	1.5	CK	SA	O	FSE	9	CS	
								LR		RF	Special Test
VF039E	2	L-9	AC	1.5	CK	SA	O	FSE	9	CS	
								LR		RF	Special Test

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Main Steam Safety and Relief Valves (1SVV*) | FSK NO. 32-8E | SHEET 1 OF 2 | PAGE 117 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV 20A	2	M-8	B	1.5	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
SOV 20B	2	B-8	B	1.5	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
SOV 21A	2	P-2	B	1.5	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		R	
SOV 21B	2	D-2	B	1.5	GL	SO	O	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail close
								PI		RF	
SOV 22A	2	M-2	B	1.5	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail open
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Main Steam Safety and Relief Valves (1SVV*) | FSK NO. 32-8E | SHEET 2 OF 2 | PAGE 118 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV 22B	2	B-2	B	1.5	GL	SO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail open
								PI		RF	
V129	2	G-9	C	1.5	CK	SA	O	FSE		Q	
V130	2	H-9	C	1.5	CK	SA	O	FSE		Q	
V123	2	L-9	C	1.5	CK	SA	O	FSE		Q	
V122	2	L-9	C	1.5	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10B | SHEET 1 OF 1 | PAGE 119OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 57A	3	H-10	B	30	BF	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
MO 57B	3	H-7	B	30	BF	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
V326	3	J-10	C	30	CK	SA	O	FSE		Q	
V327	3	J-7	C	30	CK	SA	O	FSE		Q	
MOV 96A	3	M-5	B	30	BF	MO	O	FSE PI	10	Q RF	-Sec Stroke Time
MOV 96B	3	L-5	B	30	BF	MO	O	FSE PI	10	Q RF	-Sec Stroke Time

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10E | SHEET 1 OF 1 | PAGE 120OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 27A	3	D-4	B	6	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 27C	3	D-6	B	6	BF	MO	O	FSE		Q	-Sec Stroke Time
								PI		RF	
V77	3	E-4	C	6	CK	SA	O	FSE		Q	
V78	3	E-7	C	6	CK	SA	O	FSE		Q	
V153	3	F-4	C	6	CK	SA	C	FSE		Q	
V154	3	F-7	C	6	CK	SA	C	FSE		Q	
RV 91A	3	H-4	C	1	RV	SA	C	SP		RF	150 psig
RV 91C	3	H-7	C	1	RV	SA	C	SP		RF	150 psig

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10F | SHEET 1 OF 2 | PAGE 121 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 77A	3	F-2	B	8	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 77B	3	H-2	B	8	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V135	3	G-2	C	8	CK	SA	O	FSE		Q	
V136	3	H-2	C	8	CK	SA	O	FSE		Q	
MOV 506A	3	K-3	B	8	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 506B	3	L-3	B	8	BF	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V143	3	K-3	C	8	CK	SA	O	FSE		Q	
V144	3	L-3	C	8	CK	SA	O	FSE		Q	
V201	3	F-5	C	8	CK	SA	O	FSE		Q	
V202	3	Q-5	C	8	CK	SA	O	FSE		Q	
RV 135	3	K-8	C	1	RV	SA	C	SP		RF	150 psig

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10F | SHEET 2 OF 2 | PAGE 122 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV 79A	3	F-8	C	1	RV	SA	C	SP		RF	150 psig
RV 79B	3	Q-8	C	1	RV	SA	C	SP		RF	150 psig

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water System (ISWP*) | FSK NO. 9-10G | SHEET 1 OF 2 | PAGE 123OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 40A	3	D-6	B	18	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 40B	3	M-6	B	18	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 40C	3	G-6	B	18	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 40D	3	K-6	B	18	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V147	3	D-7	C	18	CK	SA	C	FSE		Q	
V148	3	G-7	C	18	CK	SA	C	FSE		Q	
V149	3	M-7	C	18	CK	SA	C	FSE		Q	
V150	3	K-7	C	18	CK	SA	C	FSE		Q	
MOV 505A	3	E-4	B	30	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water System (1SWP*) | FSK NO. 9-10G | SHEET 2 OF 2 | PAGE 124 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 505B	3	L-4	B	30	GA	MO	C	FSE PI	10	Q RF	-Sec Stroke Time

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water (1SWP*)	FSK NO. 9-10H	SHEET 1 OF 1	PAGE 125OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V172	3	P-8	C	30	CK	SA	O	FSE		Q	
V173	3	B-9	C	30	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Service Water (1SWP*)												FSK NO. 9-10K	SHEET 1 OF 1	PAGE 126OF 140
VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS			
MOV 68A	3	H-7	B	18	BF	MO	C	FSE	10	Q	-Sec Stroke Time			
								PI		RF				
MOV 68B	3	N-7	B	18	BF	MO	C	FSE	10	Q	-Sec Stroke Time			
								PI		RF				
V199	3	H-6	C	18	CK	SA	C	FSE		Q				
V200	3	N-6	C	18	CK	SA	C	FSE		Q				
RV 100A	3	G-5	C	3/4	RV	SA	C	SP		RF	150 psig			
RV 100B	3	M-5	C	3/4	RV	SA	C	SP		RF	150 psig			

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10L | SHEET 1 OF 1 | PAGE 127 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V437	3	B-6	C	4	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10N | SHEET 1 OF 1 | PAGE 128 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V516	3	E-8	C	4	CK	SA	O	FSE		Q	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10P | SHEET 1 OF 1 | PAGE 129 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 55A	3	K-5	B	30	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 55B	3	J-5	B	30	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Service Water System (1SWP*) | FSK NO. 9-10R | SHEET 1 OF 4 | PAGE 130 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 510A	3	B-8	B	12	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 510B	3	B-6	B	12	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 504A	3	B-4	B	12	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 504B	3	B-2	B	12	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 507A	3	F-10	A	12	GA	MO	O	FSE	10	Q	58 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV 507B	3	F-8	A	12	GA	MO	O	FSE	10	Q	58 Sec Stroke Time
								LR		RF	10CRF50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10R | SHEET 2 OF 4 | PAGE 131 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 81A	3	E-1	A	12	GA	MO	0	FSE	10	Q	58 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV 81B	3	E-3	A	12	GA	MO	0	FSE	10	Q	58 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
V174	3	G-10	AC	12	CK	SA	0	FSE		Q	
								LR		RF	10CFR50 App J
V175	3	G-8	AC	12	CK	SA	0	FSE		Q	
								LR		RF	10CFR50 App J
V203	3	J-7	C	8	CK	SA	C	FSE		Q	
V204	3	J-9	C	8	CK	SA	C	FSE		Q	
V650	3	K-1	C	10	CK	SA	0	FSE		Q	
V651	3	K-3	C	10	CK	SA	0	FSE		Q	
RV 119	3	L-10	C	1	RV	SA	C	SP		RF	150 psig

INSERVICE TESTING PLAN
ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10R | SHEET 3 OF 4 | PAGE 132OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 4A	3	J-10	B	12	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 4B	3	J-8	B	12	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 502A	3	H-10	B	8	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 502B	3	H-7	B	8	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 5A	3	J-1	A	10	GA	MO	O	FSE	10	Q	49 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV 5B	3	J-3	A	10	GA	MO	O	FSE	10	Q	49 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10R | SHEET 4 OF 4 | PAGE 133OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 503A	3	H-2	A	6	GA	MO	C	FSE	10	Q	30 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV 503B	3	G-4	A	6	GA	MO	C	FSE	10	Q	30 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | PSK NO. 9-10T | SHEET 1 OF 1 | PAGE 134 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
AOV 51A	3	D-8	B	2	GL	AO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail open
								PI		RF	
AOV 51B	3	G-8	B	2	G	AO	C	FSE	10	Q	-Sec Stroke Time
								FS		Q	Fail open
								PI		RF	
RV 49A	3	E-5	C	1	RV	SA	C	SP		RF	150 psig
RV 49B	3	G-5	C	1	RV	SA	C	SP		RF	150 psig

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Service Water (1SWP*) | FSK NO. 9-10U | SHEET 1 OF 1 | PAGE 135 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 27B	3	B-2	B	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
MOV 27D	3	C-4	B	6	BF	MO	C	FSE	10	Q	-Sec Stroke Time
								PI		RF	
V79	3	E-2	C	6	CK	SA	C	FSE		Q	
V80	3	E-6	C	6	CK	SA	C	FSE		Q	
V155	3	F-2	C	6	CK	SA	C	FSE		Q	
V156	3	F-5	C	6	CK	SA	C	FSE		Q	
RV 91B	3	H-2	C	1	RV	SA	C	SP		RF	150 psig
RV 91D	3	H-5	C	1	RV	SA	C	SP		RF	150 psig

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Water Cleanup (1G33*) | FSK NO. 26-3A | SHEET 1 OF 1 | PAGE 136 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F001	1	L-8	A	6	GA	MO	O	FSE	10	Q	20 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F004	1	P-8	A	6	GA	MO	O	FSE	10	Q	6.5 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Water Cleanup (1G33*) | FSK NO. 26-3B | SHEET 1 OF 1 | PAGE 137 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F054	2	M-4	A	4	GA	MO	O	FSE	10	Q	6 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F053	2	P-4	A	4	GA	MO	O	FSE	10	Q	6 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES
RIVER BEND STATION

SYSTEM: Reactor Water Cleanup (1G33*) | FSK NO. 26-3C | SHEET 1 OF 1 | PAGE 138 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV F039	2	E-3	A	4	GA	MO	O	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV F040	2	F-3	A	4	GA	MO	O	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Water Cleanup (1G33*)	FSK NO. 26-3D	SHEET 1 OF 1	PAGE 139 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
1WCS*MOV111	2	G-4	A	4	GA	MO	C	FSE	10	Q	-Sec Stroke Time
								LR		RF	PVLCS Test
								PI		RF	
MOV F034	2	H-4	A	4	GA	MO	C	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J & PVLCS Test
								PI		RF	
MOV F028	2	K-4	A	4	GA	MO	C	FSE	10	Q	15 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
1WCS*RV144	2	K-1	C	3/4	RV	SA	C	SP		RF	1410 psig set point

INSERVICE TESTING PLAN

ISI CLASS 1,2 & 3 VALVES

RIVER BEND STATION

SYSTEM: Reactor Water Cleanup (1WCS*) | FSK NO. 26-3G | SHEET 1 OF 1 | PAGE 140 OF 140

VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
RV 154	2	P-9	C	3/4	RV	SA	C	SP		RF	150 psig set point
MOV 178	2	N-7	A	2.5	GA	MO	O	FSE	10	Q	11.5 Sec Stroke Time
								LR		RF	10CFR50 App J
								PI		RF	
MOV 172	2	Q-7	A	2.5	GA	MO	O	FSE	10	Q	11.5 Sec Stroke Time
								LR		RF	10CFR50 App J & PVLCS Test
								PI		RF	
MOV 173	2	Q-7	A	2.5	GA	MO	O	FSE	10	Q	-Sec Stroke Time
								LR		RF	PVLCS Test
								PI		RF	

APPENDIX D

VALVE REQUEST FOR RELIEF NO. 1

COMPONENT	FUNCTION	CLASS	CATEGORY
1E21*AOVF006	Reactor Coolant Pressure Boundary Isolation and LPCS Injection	1	AC
1E22*AOVF005	Reactor Coolant Pressure Boundary Isolation, Containment Isolation and HPCS Injection	1	AC
1E51*AOVF065 1E51*AOVF066	Reactor Coolant Pressure Boundary Isolation,Containment Isolation and RCIC Head Spray	1	AC
1E12*AOVF041A 1E12*AOVF041B	Reactor Coolant Pressure Boundary Isolation and LPCI A & B Injection	1	AC
1E12*AOVF041C	Reactor Coolant Pressure Boundary Isolation, Containment Isolation - LPCI C Injection	1	AC

TEST REQUIREMENT: Check valves shall be exercised at least once every 3 months.

BASIS FOR RELIEF: The air actuators for these valves are not capable of exercising the valve disc against normal reactor pressure. Test using forward flow for the High Pressure Core Spray valve is not practical, because it will interrupt normal plant operation.

ALTERNATE TESTING: Full stroke exercise during cold shutdown.

VALVE REQUEST FOR RELIEF NO. 2

COMPONENT	FUNCTION	CLASS	CATEGORY
1DER*V14 1DER*V15 1DER*V16 1DER*V17	Reactor Building Equipment Drains Drywell Isolation Check Valves	2	AC
1DFR*V1 1DFR*V2 1DFR*V3 1DFR*V4	Reactor Plant Floor Drains Drywell Isolation Check Valves	2	AC
1IAS*V78	Instrument Air Drywell Isolation	2	AC
1SAS*V487	Service Air System Drywell Isolation	2	AC

TEST REQUIREMENT: Check valves shall be exercised at least once every 3 months.

BASIS FOR RELIEF: Systems were not designed for exercise testing of these check valves. The safety function for these valves is to prevent Drywell Bypass Leakage. Successful performance of the Drywell Leakage Test will demonstrate that these valves are performing their safety function.

ALTERNATE TESTING: Drywell Leakage Test

VALVE REQUEST FOR RELIEF NO. 3

COMPONENT	FUNCTION	CLASS	CATEGORY
1FWS*MOV7A 1FWS*MOV7B 1B21*MOVF065A 1B21*MOVF065B	Feedwater supply lines, containment isolation valves	2	A
1B21*VF010A 1B21*VF010B 1B21*AOVF032A 1B21*AOVF032B	Feedwater supply lines, containment isolation valves	1	AC

TEST REQUIREMENT: Valves shall be exercised at least once every 3 months.

BASIS FOR RELIEF: Exercising these valves will interrupt feedwater flow to the reactor.

ALTERNATE TESTING: Full stroke exercise during cold shutdown.

VALVE REQUEST FOR RELIEF NO. 4

COMPONENT	FUNCTION	CLASS	CATEGORY
1LSV*V12, V18, V20 1LSV*V22, V24, V26 1LSV*V28, V30, V32 1LSV*V35, V36, V42 1LSV*V46, V48, V50 1LSV*V52, V54, V56 1LSV*V58, V60, V62 1LSV*V72, V76, V90	Permit penetration valve leakage control air flow to the penetration valves and prevent reverse flow when the PVLCS air pressure is lower than the pressure in the systems that it is trying to seal	2	C

TEST REQUIREMENT: Check valves shall be exercised at least once every 3 months.

BASIS FOR RELIEF: The pressure of the PVLC air supply is not capable of exercising the valves against the normal system pressure in the systems that it supplies. System is designed to perform its seal function when the pressure in the systems is the same as the containment atmosphere after an accident.

ALTERNATE TESTING: Full Stroke exercise during cold shutdown.

VALVE REQUEST FOR RELIEF NO. 5

COMPONENT	FUNCTION	CLASS	CATEGORY
1B21*MOVF098A 1B21*MOVF098B 1B21*MOVF098C 1B21*MOVF098D	Containment isolation for main steam lines.	2	A

TEST REQUIREMENT: Valves shall be exercised at least once every 3 months.

BASIS FOR RELIEF: Reactor power would have to be reduced to exercise the valves. Closing one valve at full power would cause high steam flow on the other three lines and trip the reactor. Also, control circuitry for valves does not allow for partial exercising.

ALTERNATE TESTING: Full stroke exercise during cold shutdown.

VALVE REQUEST FOR RELIEF NO. 6

COMPONENT	FUNCTION	CLASS	CATEGORY
1C11*MOVF083	Containment isolation for control rod drive hydraulic supply line	2	A
1C11*VF122	Containment isolation for control rod drive hydraulic supply line	2	AC

TEST REQUIREMENT: Valves shall be exercised at least once every 3 months.

BASIS FOR RELIEF: Exercising these valves would interrupt seal water flow to the recirculation pump shaft seals. Failure of the motor operated valve in the closed position would result in damage to the recirculation pump shaft seal and require the plant to be shutdown.

ALTERNATE TESTING: Full stroke exercise during cold shutdown.

VALVE REQUEST FOR RELIEF NO. 7

COMPONENT	FUNCTION	CLASS	CATEGORY
1E12*VF050A 1E12*VF050B	Reactor coolant pressure boundary isolation for shutdown cooling return lines.	2	AC

TEST REQUIREMENT: Check valves shall be exercised at least once every 3 months.

BASIS FOR RELIEF: The Residual Heat Removal pumps do not develop high enough head to stroke valves open against normal reactor operating pressure.

ALTERNATE TESTING: Full stroke exercise during cold shutdown.

VALVE REQUEST FOR RELIEF NO. 8

COMPONENT	FUNCTION	CLASS	CATEGORY
1B21*VF037A THROUGH 1B21*VF037H 1B21*VF037J THROUGH 1B21*VF037S 1B21*VF078A THROUGH 1B21*VF078H 1B21*VF078J THROUGH 1B21*VF078S	Prevent water draw up in Main Steam Safety Relief Valve Discharge piping following condensation of steam trapped after a relief valve lift.	3	C

TEST REQUIREMENT: Check valve shall be exercised at least once very 3 months.

BASIS FOR RELIEF: Valves are located in drywell which is inaccessible during normal operation. Exercising the valves will require test personnel to move the disc by hand through the inlet of the valve which is open to the drywell atmosphere. Safety Relief Valve System has the "Low Low Setpoint Function" so only two relief valves could possibly have second pops. The four vacuum breakers associated with those relief valves will have relief set point checked in addition to exercising.

ALTERNATE TESTING: All valves will be exercised by hand during cold shutdown. Valves 1B21*VF037P, 1B21*VF037R, 1B21*VF078P, and 1B21*VF078R will have their set point verified each refueling.

VALVE REQUEST FOR RELIEF NO. 9

COMPONENT	FUNCTION	CLASS	CATEGORY
1B21*VF036A,F,G,J 1B21*VF036L,M,N,R,P 1B21*VF039B,C,D,E 1B21*VF039H,K,S	Prevent air loss from the Automatic Depressurization system air accumulators in the event of loss of air supply	2	C

TEST REQUIREMENT: Check valves shall be exercised at least once every 3 months.

BASIS FOR RELIEF: Exercising valves requires access to drywell where the valves are located. There is no access to drywell during normal plant operation.

ALTERNATE TESTING: Full stroke exercise during cold shutdown.

VALVE REQUEST FOR RELIEF NO. 10

COMPONENT	FUNCTION	CLASS	CATEGORY
All power operated valves		1,2,3	A,B

TEST REQUIREMENT: The acceptance criteria for valve-stroke time as stated in IWV-3417(a).

BASIS FOR RELIEF: Valves that are degrading slowly, i.e. hardening of motor operator grease, etc., are capable of meeting the acceptance criteria of IWV-3417(a) and going undetected as having a problem.

ALTERNATE TESTING: Reference values for power operated valve stroke times will be established when the valves are known to be operating acceptably. The acceptance criteria or alert range will be $^{+}_{-}$ 25% of the reference value for valves with stroke times greater than 10 seconds and $^{+}_{-}$ 50% of the reference value for valves with stroke times less than or equal to 10 seconds. If the stroke time exceeds this range, test frequency shall be increased to once each month until corrective action is taken. Note that the alert range will not be established such that it would allow stroke times greater than the limiting value of full stroke time.