

PUMP AND VALVE
INSERVICE TESTING PLAN
RIVER BEND STATION
FIRST TEN YEAR INSPECTION INTERVAL
REVISION 1

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 final and may require revision to update based on finalization of the design.

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

SYSTEM: Service Water (ISWP*)

FSK NO. 9-10H

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VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V172	3	B-8	C	30	CK	SA	0	FSE		Q	
V173	3	B-9	C	30	CK	SA	0	FSE		Q	
MOV 501A	3	D-4	B	18	BF	MO	0	FSE PI	10	Q RF	___ Sec. Stroke Time
MOV 501B	3	D-6	B	18	BF	MO	0	FSE PI	10	Q RF	___ Sec. Stroke Time
MOV 511A	3	N-4	B	18	BF	MO	0	FSE PI	10	Q RF	___ Sec. Stroke Time
MOV 511B	3	N-6	B	18	BF	MO	0	FSE PI	10	Q RF	___ Sec. Stroke Time

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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 PI	10	Q RF	-Sec Stroke Time
MOV 68B	3	N-7	B	18	BF	MO	C	FSE PI	10	Q RF	-Sec Stroke Time
V199	3	H-6	C	18	CK	SA	C	FSE		Q	
V200	3	N-6	C	18	CK	SA	C	FSE		Q	
1E12* RVF100A	3	G-5	C	3/4	RV	SA	C	SP		RF	150 psig
1E12* RVF100B	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 System (ISWP*)

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VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
MOV 510A	3	B-2	B	12	GA	MO	C	FSE PI	10,11	RF RF	-Sec Stroke Time
MOV 510B	3	B-6	B	12	GA	MO	C	FSE PI	10,11	RF RF	-Sec Stroke Time
MOV 504A	3	B-4	B	12	GA	MO	C	FSE PI	10,11	RF RF	-Sec Stroke Time
MOV 504B	3	B-2	B	12	GA	MO	C	FSE PI	10,11	RF RF	-Sec Stroke Time
MOV 507A	3	F-10	A	12	GA	MO	0	FSE LR PI	10	Q RF RF	58 Sec Stroke Time 10CFR50 App J
MOV 507B	3	F-8	A	12	GA	MO	0	FSE LR PI	10	Q RF RF	58 Sec Stroke Time 10CRF50 App J

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

SYSTEM: Service Water (ISWP*)

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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	0	FSE PI	10	Q RF	-Sec Stroke Time
MOV 4B	3	J-8	B	12	GA	MO	0	FSE PI	10	Q RF	-Sec Stroke Time
MOV 502A	3	H-10	B	8	GA	MO	C	FSE PI	10,11	RF RF	-Sec Stroke Time
MOV 502B	3	H-7	B	8	GA	MO	C	FSE PI	10,11	RF RF	-Sec Stroke Time
MOV 5A	3	J-1	A	10	GA	MO	0	FSE LR PI	10	Q RF RF	49 Sec Stroke Time 10CFR50 App J
MOV 5B	3	J-3	A	10	GA	MO	0	FSE LR PI	10	Q RF RF	49 Sec Stroke Time 10CFR50 App J

INSERVICE TESTING PLAN
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SYSTEM: Service Water (ISWP*)

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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 LR PI	10,11	RF RF RF	30 Sec Stroke Time 10CFR50 App J
MOV 503B	3	G-4	A	6	GA	MO	C	FSE LR PI	10,11	RF RF RF	30 Sec Stroke Time 10CFR50 App J

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

SYSTEM: Service Water (ISWP*)

FSK NO. 9-10U

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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 PI	10	Q RF	-Sec Stroke Time
MOV 27D	3	C-4	B	6	BF	MO	C	FSE PI	10	Q RF	-Sec Stroke Time
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: Service Water (ISWP)

FSK NO. 9-10V

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VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE (INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
SOV 522A	2		A	1	GL	SO	C	FSE LR PI	10	Q RF RF	Sec. Stroke Time 10 CFR 50 App. J
SOV 522B	2		A	1	GL	SO	C	FSE LR PI	10	Q RF RF	Sec. Stroke Time 10 CFR 50 App. J
SOV 522C	2		A	1	GL	SO	C	FSE LR PI	10	Q RF RF	Sec. Stroke Time 10 CFR 50 App. J
SOV 522D	2		A	1	GL	SO	C	FSE LR PI	10	Q RF RF	Sec. Stroke Time 10 CFR 50 App. J
SOV 523A	3		B	3/4	GA	SO	C	FSE PI	10	Q RF	Sec. Stroke Time
SOV 523B	3		B	3/4	GA	SO	C	FSE PI	10	Q RF	Sec. Stroke Time
SOV 523C	3		B	3/4	GA	SO	C	FSE PI	10	Q RF	Sec. Stroke Time
SOV 523D	3		B	3/4	GA	SO	C	FSE PI	10	Q RF	Sec. Stroke Time
SOV 552A	3		B	3/4	GL	SO	O	FSE PI	10	Q RF	Sec. Stroke Time
SOV 552B	3		B	3/4	GL	SO	O	FSE PI	10	Q RF	Sec. Stroke Time

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

SYSTEM: Service Water (LSWP)

FSK NO. 9-10V

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VALVE NUMBER	CLASS	COORDINATES	CATEGORY	SIZE(INCHES)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST	REQUESTS FOR RELIEF	FREQUENCY	REMARKS
V1087	3		C	3/4	CK	SA	C	FSE		0	
V1086	3		C	3/4	CK	SA	C	FSE		0	
V1091	2		C	1	CK	SA	C	FSE		0	
V1092	2		C	1	CK	SA	C	FSE		0	
V1095	2		C	1	CK	SA	C	FSE		0	
V1098	2		C	1	CK	SA	C	FSE		0	
V1102	3		C	1½	CK	SA	C	FSE		0	
V1103	3		C	1½	CK	SA	C	FSE		0	

VALVE REQUEST FOR RELIEF NO. 11

<u>COMPONENT</u>	<u>FUNCTION</u>	<u>CLASS</u>	<u>CATEGORY</u>
1SWP*MOV 502A, B 1SWP*MOV 504A, B 1SWP*MOV 510A, B	Transfer normal cooling water from Ventillation Chilled Water System or Reactor Plant Component Cooling Water System to Standby Service Water System for Containment Unit Cooler, RHR Pumps, and Fuel Pool Cooling Heat Exchangers.	3	B
1SWP*MOV 503A, B	Transfer normal cooling water return from Ventillation Chilled Water System to Standby Service Water System for Containment Unit Coolers.	2	A

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

BASIS FOR RELIEF: Exercising these valves during normal plant operations will result in impurities in the Standby Service Water System being introduced into the essentially pure Reactor Plant Component Cooling Water System and Ventillation Chilled Water System. Testing during refueling will allow sufficient time to establish provisions to prevent cross contamination and/or sufficient time to restore normal water purity if cross contamination occurs.

ALTERNATE TESTING: Full stroke exercise during refueling when provisions can be taken to prevent impurities being introduced into the Reactor Plant Component Cooling Water System and Ventillation Chilled Water System.