TO: Controlled Copy Holders of IST Pump and Valve Program manual.

Please insert the attached changes into your manuals as follows:

1. Minor editorial changes and the addition of page revision numbers have been made to Sections 1, 2 and 3, remove and replace entire sections:

   Section 1, pages 1-1 through 1-3
   Section 2, pages 2-1 through 2-5
   Section 3, pages 3-1 through 3-9

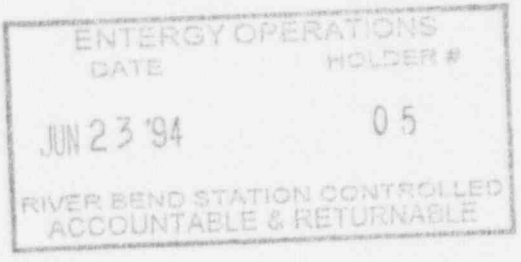
2. ISTCR #0001 - Remove and replace Appendix C (entire); the affected pages of Section 3 were incorporated in item 1; place ISTCR #0001 in the back of the manual.

3. ISTCR #0002 - Remove and replace Pump Relief Request No. 4.; place ISTCR # 0002 in the back of the manual.

4. ISTCR #0003 - Place ISTCR #0003 in the back of the manual; the affected pages of Appendix C were incorporated in item 2.

5. ISTCR #0004 - Remove and replace Valve Relief Request No. 24.; place ISTCR #0004 in the back of the manual.

6. ISTCR #0005 - Place ISTCR #0005 in the back of the manual; the affected pages of Appendix C were incorporated in item 2.



IST CHANGE REQUEST FORM

STCR #: 0001			
Date: May 31, 1994	Requester: James K. Roberts	Department: Engineering - Mech/BOP	Phone: X 4554
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		Affected component(s): All ASME Valves in the IST Plan (Appendix C)	
Affected Pages:: IST Plan Appendix C (Entire), pages 3-4 & 3-5	STP- N/A	Relief Requests: N/A	CR's, MR's, MWO's: N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Replace Inservice Test Plan (Rev. 6) Appendix C with attached rewrite. New appendix has been reformatted, minor editorial changes have been made, and valve reference and limiting stroke times have been deleted. Section 3, delete 'STROKE TIME LIMITS' (page 3-4 & 3-5, para 3.3.6, 1, 2 & 3, and NOTE 1 & 2); also 'MISC INFO' (page 3-5, para. 1). Delete the number 2 and begin new Section 3.3.6 with 'REMARKS'

Justification for the Requested Change:

Change results in a valve table more in line with draft NUREG-1482 Appendix B. This will negate the requirement to update the IST Plan each time a reference value changes. Valve reference and limiting stroke times are now maintained in a separate database.

Reviewed: James K Roberts 5027 6/1/94
(IST Engineer / Coordinator / KCN / Date)

Approved: John Jackson 6296 6-1-94
(IST Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

ENTERGY OPERATIONS
DATE: JUN 23 '94
HOLDER #: 05
RIVER BEND STATION CONTROLLED
ACCOUNTABLE & RETURNABLE

ENTERGY

RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #	System Name
36 1A	052	RDS	6/1/94	0001	CRD HYDRAULIC

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1C11*MOVF083	2	A	2	GL	MO	O	C	L-2	FSE	CS	06	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1C11*VF122	2	AC	2	CK	SA	O	C	F-16	FSE	RF	26	
									LR	RF		10 CFR 50, APP. J Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
36 1C	052	RDS	6/1/94	0001	CRD HYDRAULIC

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uater	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1C11*A0V126	2	B	1	GA	AO	C	O	E-7	FSE FS	V V	33	Scram Test; 145 ea.
1C11*A0V127	2	B	3/4	GA	AO	C	O	F-9	FSE FS	V V	33	Scram Test; 145 ea.
1C11*A0VF010	2	B	1	GL	AO	O	C	H-16	FSE FS PI	O O RF		
1C11*A0VF011	2	B	2	GL	AO	O	C	A-17	FSE FS PI	O O RF		
1C11*A0VF180	2	B	1	GL	AO	O	C	H-17	FSE FS PI	O O RF		
1C11*A0VF181	2	B	2	GL	AO	O	C	A-18	FSE FS PI	O O RF		
1C11*V114	2	C	3/4	CK	SA	C	O	F-9	FSE	V	33	Scram Test; 145 ea.
1C11*V115	2	C	1/2	CK	SA	C	C	D-7	FSE LR	V RF	33	Scram Test; 145 ea. Special Leak Test
1C11*V138	2	C	1/2	CK	SA	O	C	D-7	FSE	O		Scram Test; 145 ea.

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
25 1C	053	RCS	6/1/94	0001	REACTOR RECIRCULATION

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1B33*AOVF019	2	A	3/4	GL	AO	O	C	L 9	FSE	Q	2	
									FS	Q		
									PI	RF		
									LR	RF		Drywell Bypass Test
1B33*AOVF020	2	A	3/4	GL	AO	O	C	L 8	FSE	Q	2	
									FS	Q		
									PI	RF		
									LR	RF		Drywell Bypass Test
1B33*VF013A	2	AC	3/4	CK	SA	O	C	F 5	FSE	RF	Q2	
									LR	RF		Drywell Bypass Test
1B33*VF013B	2	AC	3/4	CK	SA	O	C	F 17	FSE	RF	Q2	
									LR	RF		Drywell Bypass Test
1B33*VF017A	2	AC	3/4	CK	SA	O	C	E 7	FSE	RF	Q2	
									LR	RF		Drywell Bypass Test
1B33*VF017B	2	AC	3/4	CK	SA	O	C	E 16	FSE	RF	Q2	
									LR	RF		Drywell Bypass Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
25 10	053	RCS	6/1/94	0001	REACTOR RECIRCULATION

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act mater	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1RCS*MOV58A	2	A	1	GL	MO	O	C	F 14	FSE	CS	16	
									PI	RF		
									LR	RF		Drywell Bypass Test
1RCS*MOV58B	2	A	1	GL	MO	O	C	F 14	FSE	CS	16	
									PI	RF		
									LR	RF		Drywell Bypass Test
1RCS*MOV59A	2	A	1	GL	MO	O	C	E 14	FSE	CS	16	
									PI	RF		
									LR	RF		Drywell Bypass Test
1RCS*MOV59B	2	A	1	GL	MO	O	C	E 14	FSE	CS	16	
									PI	RF		
									LR	RF		Drywell Bypass Test
1RCS*MOV60A	2	A	1/2	GL	MO	O	C	D 14	FSE	CS	16	
									PI	RF		
									LR	RF		Drywell Bypass Test
1RCS*MOV60B	2	A	1/2	GL	MO	O	C	D 14	FSE	CS	16	
									PI	RF		
									LR	RF		Drywell Bypass Test
1RCS*MOV61A	2	A	3/4	GL	MO	O	C	C 14	FSE	CS	16	
									PI	RF		
									LR	RF		Drywell Bypass Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
25 1D	053	RCS	6/1/94	0001	REACTOR RECIRCULATION

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
CS*MOV61B	2	A	3/4	GL	MO		C	C 14	FSE	CS	16	
									PI	RF		
									LR	RF		Drywell Bypass Test

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RIVER BEND STATION

INSERVICE TEST PLAN VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
4.3C	106	CNS	6/1/94	0001	COND., MU, STOR/TRANSF.

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CNS*MOV125	2	A	4	GA	MO	O	C	G-15	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1CNS*MOV130	2	A	4	GA	MO	O	C	G-14	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Div. Test
1CNS*V86	2	AC	4	CK	SA	C	C	G-18	FSE	RF	26	
									LR	RF		10 CFR 50, APP. J Test
1E12*VF044A	2	AP	4	GA	MA	C	C	J-20	LR	RF		10 CFR 50, APP. J Test
1E12*VF044B	2	AP	4	GA	MA	C	C	K-20	LR	RF		10 CFR 50, APP. J Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
6 18	107	FWS	6/1/94	0001	FEEDWATER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1B21*AOVF032A	1	AC	20	CK	SA	0	0	J-12	FSE	RF	28	Testable Check Valve
									PI	RF		
							C		LR	RF		10 CFR 50, APP. J Test
1B21*AOVF032B	1	AC	20	CK	SA	0	0	N-15	FSE	RF	28	Testable Check Valve
									PI	RF		
							C		LR	RF		10 CFR 50, APP. J Test
1B21*MOVF065A	2	A	20	GA	MO	0	C	J-15	FSE	CS	03	
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1B21*MOVF065B	2	A	20	GA	MO	0	C	N-18	FSE	CS	03	
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1B21*VF010A	1	AC	20	CK	SA	0	0	J-10	FSE	RF	28	
							C		LR	RF		10 CFR 50, APP. J Test
1B21*VF010B	1	AC	20	CK	SA	0	0	N-13	FSE	RF	28	
							C		LR	RF		10 CFR 50, APP. J Test
1FWS*MOV7A	2	A	20	GA	MO	0	C	J-14	FSE	CS	03	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Div. Test

RIVER BEND STATION

INSERVICE TEST PLAN VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
6 1B	107	FWS	6/1/94	0001	FEEDWATER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1FWS*MOV7B	2	A	20	GA	MO	O	C	N 17	FSE	CS	03	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Div. Test

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RIVER BEND STATION

INSERVICE TEST PLAN VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #	System Name:
3 1A	109	MSS	6/1/94	0001	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
B21*AOVF022A	1	A	24	GL	AO	O	C	D 16	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
B21*AOVF022B	1	A	24	GL	AO	O	C	N 5	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
B21*AOVF022C	1	A	24	GL	AO	O	C	N 16	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
B21*AOVF022D	1	A	24	GL	AO	O	C	E 5	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
B21*VF024A	3	AC	2	CK	SA	C	C	F 14	FSE	CS	39	
B21*VF024B	3	AC	2	CK	SA	C	C	L 7	FSE	CS	39	
B21*VF024C	3	AC	2	CK	SA	C	C	L 15	FSE	CS	39	

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES

APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
3 1A	109	MSS	6/1/94	0001	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Positions		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
121*VF024D	3	AC	2	CK	SA	C	C	G-7	FSE	CS	39	

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
3 1B	169	SVV	6/1/94	0001	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act wator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1B21*RVF041A	1	B,C	8X10	RV	AO	C	O&C	F 13	FSE	RF	22	
					SA				PI	RF		
									SP	RF		1165 psig
1B21*RVF041B	1	B,C	8X10	RV	AO	C	O&C	F 7	FSE	RF	22	
					SA				PI	RF		
									SP	RF		1165 psig
1B21*RVF041C	1	B,C	8X10	RV	AO	C	O&C	H 18	FSE	RF	22	
					SA				PI	RF		
									SP	RF		1165 psig
1B21*RVF041D	1	B,C	8X10	RV	AO	C	O&C	H 10	FSE	RF	22	
					SA				PI	RF		
									SP	RF		1165 psig
1B21*RVF041F	1	B,C	8X10	RV	AO	C	O&C	F 4	FSE	RF	22	
					SA				PI	RF		
									SP	RF		1165 psig
1B21*RVF041G	1	B,C	8X10	RV	AO	C	O&C	H 17	FSE	RF	22	
					SA				PI	RF		
									SP	RF		1165 psig
1B21*RVF041L	1	B,C	8X10	RV	AO	C	O&C	H 19	FSE	RF	22	
					SA				PI	RF		
									SP	RF		1165 psig

RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
3 1B	109	SVV	6/1/94	0001	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1B21*RVF047A	1	B,C	8X10	RV	AO SA	C	O&C	F 14	FSE PI SP	RF RF RF	22	 1180 psig
1B21*RVF047B	1	B,C	8X10	RV	AO SA	C	O&C	F 8	FSE PI SP	RF RF RF	22	 1180 psig
1B21*RVF047C	1	B,C	8X10	RV	AO SA	C	O&C	H 14	FSE PI SP	RF RF RF	22	 1180 psig
1B21*RVF047D	1	B,C	8X10	RV	AO SA	C	O&C	K 8	FSE PI SP	RF RF RF	22	 1180 psig
1B21*RVF047F	1	B,C	8X10	RV	AO SA	C	O&C	F 3	FSE PI SP	RF RF RF	22	 1180 psig
1B21*RVF051B	1	B,C	8X10	RV	AO SA	C	O&C	F 6	FSE PI SP	RF RF RF	22	 1190 psig
1B21*RVF051C	1	B,C	8X10	RV	AO SA	C	O&C	H 16	FSE PI SP	RF RF RF	22	 1190 psig

RIVER BEND STATION

INSERVICE TEST PLAN VALVES
APPENDIX C

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
3 18	109	SVV	6/1/94	0001	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
21*RVF051D	1	B,C	8X10	RV	AO SA	C	O&C	H 5	FSE PI SP	RF RF RF	22	1190 psig
21*RVF051G	1	B,C	8X10	RV	AO SA	C	O&C	H 20	FSE PI SP	RF RF RF	22	1190 psig
21*VF036A	2	AC	1.5	CK	SA	O	C	L 13	FSE LR	RF RF	09	SRV Au Leak Test
21*VF036F	2	AC	1.5	CK	SA	O	C	K 17	FSE LR	RF RF	09	SRV Au Leak Test
821*VF036G	2	AC	1.5	CK	SA	O	C	K 19	FSE LR	RF RF	09	SRV Au Leak Test
B21*VF036J	2	AC	1.5	CK	SA	O	C	K 9	FSE LR	RF RF	09	SRV Au Leak Test
B21*VF036L	2	AC	1.5	CK	SA	O	C	K 8	FSE LR	RF RF	09	SRV Au Leak Test
1B21*VF036M	2	AC	1.5	CK	SA	O	C	K 2	FSE LR	RF RF	09	SRV Au Leak Test
1B21*VF036N	2	AC	1.5	CK	SA	O	C	K 5	FSE LR	RF RF	09	SRV Au Leak Test

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RIVER BEND STATION

INSERVICE TEST PLAN VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
3 18	109	SVV	6/1/94	0001	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
B21*VF036P	2	AC	1.5	CK	SA	O	C	K-16	FSE	RF	09	
									LR	RF		SRV Air leak Test
B21*VF036R	2	AC	1.5	CK	SA	O	C	K-4	FSE	RF	09	
									LR	RF		SRV Air leak Test
B21*VF037A	3	C	10	CK	SA	C	O&C	E-13	FSE	CS	08	
B21*VF037B	3	C	10	CK	SA	C	O&C	E-7	FSE	CS	08	
B21*VF037C	3	C	10	CK	SA	C	O&C	F-16	FSE	CS	08	
B21*VF037D	3	C	10	CK	SA	C	O&C	G-9	FSE	CS	08	
B21*VF037E	3	C	10	CK	SA	C	O&C	E-4	FSE	CS	08	
B21*VF037F	3	C	10	CK	SA	C	O&C	F-17	FSE	CS	08	SRV Air leak Test
B21*VF037G	3	C	10	CK	SA	C	O&C	F-20	FSE	CS	08	SRV Air leak Test
B21*VF037H	3	C	10	CK	SA	C	O&C	E-14	FSE	CS	08	SRV Air leak Test
B21*VF037J	3	C	10	CK	SA	C	O&C	E-9	FSE	CS	08	SRV Air leak Test
B21*VF037K	3	C	10	CK	SA	C	O&C	G-18	FSE	CS	08	SRV Air leak Test
B21*VF037L	3	C	10	CK	SA	C	O&C	G-8	FSE	CS	08	SRV Air leak Test
B21*VF037M	3	C	10	CK	SA	C	O&C	E-3	FSE	CS	08	SRV Air leak Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
3 18	109	SVV	6/1/94	0001	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1B21*VF037N	3	C	10	CK	SA	C	O&C	E 5	FSE	CS	08	SRV Au leak Test
1B21*VF037P	3	C	10	CK	SA	C	O&C	G 17	FSE	CS	08	SRV Au leak Test
1B21*VF037R	3	C	10	CK	SA	C	O&C	G 2	FSE	CS	08	SRV Au leak Test
1B21*VF037S	3	C	10	CK	SA	C	O&C	G 21	FSE	CS	08	SRV Au leak Test
1B21*VF039B	2	AC	1.5	CK	SA	O	C	K 7	FSE	RF	09	
									LR	RF		SRV Au leak Test
1B21*VF039C	2	AC	1.5	CK	SA	O	C	K 14	FSE	RF	09	
									LR	RF		SRV Au leak Test
1B21*VF039D	2	AC	1.5	CK	SA	O	C	K 10	FSE	RF	09	
									LR	RF		SRV Au leak Test
1B21*VF039E	2	AC	1.5	CK	SA	O	C	K 3	FSE	RF	09	
									LR	RF		SRV Au leak Test
1B21*VF039H	2	AC	1.5	CK	SA	O	C	L 13	FSE	RF	09	
									LR	RF		SRV Au leak Test
1B21*VF039K	2	AC	1.5	CK	SA	O	C	K 18	FSE	RF	09	
									LR	RF		SRV Au leak Test
1B21*VF039S	2	AC	1.5	CK	SA	O	C	K 20	FSE	RF	09	
									LR	RF		SRV Au leak Test

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P&ID	System #	System Alpha	Page Rev. Date	ISTCR #	System Name
3 1B	109	SVV	6/1/94	0001	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1B21*VF078A	3	C	10	CK	SA	C	O&C	F 13	FSE	CS	08	
1B21*VF078B	3	C	10	CK	SA	C	O&C	E 7	FSE	RF	57	
1B21*VF078C	3	C	10	CK	SA	C	O&C	F 16	FSE	CS	08	
1B21*VF078D	3	C	10	CK	SA	C	O&C	G 9	FSE	CS	08	
1B21*VF078E	3	C	10	CK	SA	C	O&C	E 4	FSE	CS	08	
1B21*VF078F	3	C	10	CK	SA	C	O&C	F 17	FSE	CS	08	
1B21*VF078G	3	C	10	CK	SA	C	O&C	F 20	FSE	CS	08	
1B21*VF078H	3	C	10	CK	SA	C	O&C	E 14	FSE	CS	08	
1B21*VF078J	3	C	10	CK	SA	C	O&C	E 9	FSE	RF	57	
1B21*VF078K	3	C	10	CK	SA	C	O&C	F 18	FSE	CS	08	
1B21*VF078L	3	C	10	CK	SA	C	O&C	G 8	FSE	CS	08	
1B21*VF078M	3	C	10	CK	SA	C	O&C	E 3	FSE	CS	08	
1B21*VF078N	3	C	10	CK	SA	C	O&C	E 5	FSE	CS	08	
1B21*VF078P	3	C	10	CK	SA	C	O&C	F 17	FSE	CS	08	
1B21*VF078R	3	C	10	CK	SA	C	O&C	G 2	FSE	CS	08	

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
3-1B	109	SVV	6/7/94	0005	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
321*VF078S	3	C	10	CK	SA	C	O&C	E-21	FSE	CS	08	
SVV*MOV1A	2	A	1.5	GL	MO	O	O&C	M-17	FSE	O		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
SVV*MOV1B	2	A	1.5	GL	MO	O	O&C	M-7	FSE	O		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
3 1B	109	SVV	6/7/94	0005	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
SVV*V9	2	AC	1.5	CK	SA	O	C	M-6	FSE	RF	61	
									LR	RF		10 CFR 50, APP. J Test
SVV*V31	2	AC	1.5	CK	SA	O	C	M-16	FSE	RF	61	
									LR	RF		10 CFR 50, APP. J Test
SVV*V121	2	C	1.5	CK	SA	C	O&C	N-20	FSE	CS	34	
SVV*V122	2	C	1.5	CK	SA	O	C	L-13	FSE	RF	24	Disassembly
SVV*V123	2	C	1.5	CK	SA	O	C	L-13	FSE	RF	24	Disassembly
SVV*V128	2	C	1.5	CK	SA	C	O&C	N-10	FSE	CS	34	
SVV*V129	2	C	1.5	CK	SA	O	C	L-11	FSE	RF	24	Disassembly
SVV*V130	2	C	1.5	CK	SA	O	C	L-11	FSE	RF	24	Disassembly

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
3 1C	109	MSS	6/1/94	0001	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1B21*A0VF028A	1	A	24	GL	AO	O	C	J 16	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*A0VF028B	1	A	24	GL	AO	O	C	M 16	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*A0VF028C	1	A	24	GL	AO	O	C	G 16	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*A0VF028D	1	A	24	GL	AO	O	C	L 16	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*M0VF098A	2	A	24	GA	MO	O	C	J 12	FSE	CS	05	
									PI	RF		
									LR	RF		
									LR	RF		PVLCS Div. Test

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
3 1C	109	MSS	6/1/94	0001	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1*MOVF098B	2	A	24	GA	MO	O	C	M 12	FSE PI LR LR	CS RF RF RF	05	PVLCS Div. Test
21*MOVF098C	2	A	24	GA	MO	O	C	G 12	FSE PI LR LR	CS RF RF RF	05	PVLCS Div. Test
121*MOVF098D	2	A	24	GA	MO	O	C	L 12	FSE PI LR LR	CS RF RF RF	05	PVLCS Div. Test
B21*VF029A	3	AC	2	CK	SA	C	C	K 17	FSE	CS	39	
B21*VF029B	3	AC	2	CK	SA	C	C	N 17	FSE	CS	39	
1B21*VF029C	3	AC	2	CK	SA	C	C	H 17	FSE	CS	39	
1B21*VF029D	3	AC	2	CK	SA	C	C	L 17	FSE	CS	39	

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INSERVICE TEST PLAN VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
9 1A	115	CCP	6/1/94	0001	CLOSED COOLING WATER REACTOR PLANT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
CCP*MOV138	2	A	10	GA	MO	O	C	B 18	FSE	CS	14	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
CCP*MOV142	2	A	6	BF	MO	O	C	B 16	FSE	CS	14	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
CCP*MOV143	2	A	6	BF	MO	O	C	J 9	FSE	CS	14	
									PI	RF		
									LR	RF		Drywell Bypass Test
CCP*MOV144	2	A	6	BF	MO	O	C	H 9	FSE	CS	14	
									PI	RF		
									LR	RF		Drywell Bypass Test
CCP*MOV158	2	A	10	GA	MO	O	C	J 17	FSE	CS	14	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
CCP*MOV159	2	A	10	GA	MO	O	C	J 19	FSE	CS	14	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
CCP*V118	2	AC	10	CK	SA	O	C	B 17	FSE	RF	26	
									LR	RF		Drywell Bypass Test
CCP*V119	2	AC	6	CK	SA	O	C	B 15	FSE	RF	02	
									LR	RF		Drywell Bypass Test

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INSERVICE TEST PLAN - VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISI CR #:	System Name:
9 1A	115	CCP	6/1/94	0001	CLOSED COOLING WATER - REACTOR PLANT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CCP*V133	2	AC	1.5	CK	SA	C	O&C	H 9	FSE LR	CS RF	14	10 CFR 50, APP. J Test
1CCP*V160	2	AC	1.5	CK	SA	C	O&C	K 17	FSE LR	CS RF	14 51	10 CFR 50, APP. J Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
9 18	115	CCP	6/1/94	0001	CLOSED COOLING WATER REACTOR PLANT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1CCP*MOV129	3	B	12	BF	MO	O	O&C	N 16	FSE PI	CS RF		
1CCP*MOV130	3	B	12	BF	MO	O	O&C	J 16	FSE PI	CS RF		
1CCP*MOV163	3	B	2	GL	MO	O	C	M 7	FSE PI	CS RF	14	
1CCP*MOV169	3	B	2	GL	MO	O	C	M 7	FSE PI	CS RF	14	
1CCP*MOV16A	3	B	12	BF	MO	O	O&C	J 2	FSE PI	CS RF		
1CCP*MOV16B	3	B	12	BF	MO	O	O&C	L 8	FSE PI	CS RF		
1CCP*MOV335	3	B	12	BF	MO	O	O&C	J 16	FSE PI	CS RF		
1CCP*MOV336	3	B	12	BF	MO	O	O&C	N 15	FSE PI	CS RF		
1CCP*V72	3	C	12	CK	SA	O	C	L 8	FSE	CS	15	
1CCP*V73	3	C	12	CK	SA	O	C	J 3	FSE	CS	15	
1CCP*V83	3	C	1.5	CK	SA	O	O	L 15	FSE	Q		

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9 18	115	CCP	6/1/94	0001	CLOSED COOLING WATER REACTOR PLANT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
CP*V92	3	C	1.5	CK	SA	O	O	H 13	FSE	O		
CP*V204	3	C	10	CK	SA	O	O	N 13	FSE	O		
CP*V209	3	C	10	CK	SA	O	O	J 13	FSE	O		
CP*V300	3	C	1.5	CK	SA	O	O	J 8	FSE	O		
CP*V337	3	C	2	CK	SA	O	C	M 13	FSE	RF	24	Disassembly
CP*V338	3	C	2	CK	SA	O	C	M 13	FSE	RF	24	Disassembly

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9 108	118	SWP	6/1/94	0001	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
*MOV27A	3	B	6	BF	MO	O	O&C	M 19	FSE PI	O RF		
*MOV27B	3	B	6	BF	MO	C	O&C	J 20	FSE PI	O RF		
*MOV27C	3	B	6	BF	MO	O	O&C	L 19	FSE PI	O RF		
*MOV27D	3	B	6	BF	MO	C	O&C	H 20	FSE PI	O RF		
P*MOV506A	3	B	8	BF	MO	O	O&C	N 5	FSE PI	O RF		
P*MOV506B	3	B	8	BF	MO	O	O&C	N 2	FSE PI	O RF		
P*MOV57A	3	B	30	BF	MO	O	C	A 16	FSE PI	RF RF	63	
/P*MOV57B	3	B	30	BF	MO	O	C	C 15	FSE PI	RF RF	63	
VP*MOV77A	3	B	8	BF	MO	O	O&C	P 7	FSE PI	O RF		

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9 108	118	SWP	6/1/94	0001	SERVICE WATER NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
SWP*MOV77B	3	B	8	BF	MO	O	O&C	P-4	FSE PI	Q RF		
SWP*MOV96A	3	B	30	BF	MO	O	C	D-18	FSE PI	Q RF		
SWP*MOV96B	3	B	30	BF	MO	O	C	E-17	FSE PI	Q RF		
SWP*V77	3	C	6	CK	SA	O	O	M-17	FSE	Q		
SWP*V78	3	C	6	CK	SA	O	O	L-18	FSE	Q		
SWP*V79	3	C	6	CK	SA	O	O	J-19	FSE	Q		
SWP*V80	3	C	6	CK	SA	C	O	G-19	FSE	Q		
SWP*V135	3	C	8	CK	SA	O	O&C	P-6	FSE	RF	25	
SWP*V136	3	C	8	CK	SA	O	O&C	P-5	FSE	RF	25	
SWP*V143	3	C	8	CK	SA	O	O&C	N-4	FSE	RF	25	
SWP*V144	3	C	8	CK	SA	O	O&C	N-3	FSE	RF	25	
SWP*V153	3	C	6	CK	SA	C	C	M-17	FSE	Q		
SWP*V154	3	C	6	CK	SA	C	C	L-17	FSE	Q		

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INSERVICE TEST PLAN VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
9108	118	SWP	6/1/94	0001	SERVICE WATER NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
P*V155	3	C	6	CK	SA	C	C	J 18	FSE	Q		
P*V156	3	C	6	CK	SA	C	C	G 18	FSE	Q		
P*V201	3	C	8	CK	SA	O	O&C	M 6	FSE	CS		
P*V202	3	C	8	CK	SA	O	O&C	M 1	FSE	CS		
P*V325	3	C	30	CK	SA	O	C	A 16	FSE	RF	58	
P*V327	3	C	30	CK	SA	O	C	C 16	FSE	RF	58	

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9 10C	118	SWP	6/1/94	0001	SERVICE WATER NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
SWP*AOV51A	3	B	2	GL	AO	C	O	J 18	FSE FS PI	O O RF		
SWP*MOV73A	3	B	4	GA	MO	O	O&C	F 8	FSE PI	O RF		
SWP*MOV74A	3	B	4	GA	MO	O	O&C	K 6	FSE PI	O RF		
SWP*SOV523A	3	B	3/4	GA	SO	C	O&C	M 13	FSE PI	CS RF	30	
SWP*SOV523C	3	B	3/4	GA	SO	C	O&C	M 12	FSE PI	CS RF	30	
SWP*V1102	3	C	3/4	CK	SA	C	O	M 13	FSE	CS	30	

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INSERVICE TEST PLAN - VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
9 100	118	SWP	6/1/94	0001	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
SWP*MOV4A	3	A	12	GA	MO	O	C	B 17	FSE PI LR	CS RF RF	52	 Drywell Bypass Test
SWP*MOV4B	3	A	12	GA	MO	O	C	D 17	FSE PI LR	CS RF RF	52	 Drywell Bypass Test
SWP*MOV5A	3	A	10	GA	MO	O	C	L 18	FSE PI LR	CS RF RF	52	 10 CFR 50, APP. J Test
SWP*MOV5B	3	A	10	GA	MO	O	C	H 18	FSE PI LR	CS RF RF	52	 10 CFR 50, APP. J Test
SWP*MOV81A	3	A	12	GA	MO	O	O&C	N 20	FSE PI LR	O RF RF	52	 10 CFR 50, APP. J Test
SWP*MOV81B	3	A	12	GA	MO	O	O&C	H 20	FSE PI LR	C RF RF	52	 10 CFR 50, APP. J Test
SWP*MOV501A	3	B	18	BF	MO	O	C	N 1	FSE PI	O RF		
SWP*MOV501B	3	B	18	BF	MO	O	C	N 3	FSE PI	O RF		

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
9 100	118	SWP	6/1/94	0001	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
VP*MOV502A	3	B	8	GA	MO	C	O&C	B 18	FSE PI	RF RF	11	
VP*MOV502B	3	B	8	GA	MO	C	O&C	E 18	FSE PI	RF RF	11	
VP*MOV503A	3	A	6	GA	MO	C	O&C	L 18	FSE PI LR	RF RF RF	11	 10 CFR 50, APP. J Test
VP*MOV503B	3	A	6	GA	MO	C	O&C	H 18	FSE PI LR	RF RF RF	11	 10 CFR 50, APP. J Test
VP*MOV504A	3	B	12	GA	MO	C	O&C	N 19	FSE PI	RF RF	11	
VP*MOV504B	3	B	12	GA	MO	C	O&C	J 21	FSE PI	RF RF	11	
VP*MOV507A	3	A	12	GA	MO	O	O&C	B 20	FSE PI LR	O RF RF	52	 10 CFR 50, APP. J Test

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P&ID	System #	System Alpha	Page Rev. Date	ISTCR #	System Name
9100	118	SWP	6/1/94	0001	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
P*MOV507B	3	A	12	GA	MO	O	O&C	D-20	FSE PI LR	Q RF RF	52	10 CFR 50, APP. J Test
P*MOV510A	3	B	12	GA	MO	C	O&C	B-21	FSE PI	RF RF	11	
/P*MOV510B	3	B	12	GA	MO	C	O&C	E-21	FSE PI	RF RF	11	
VP*MOV511A	3	B	18	BF	MO	O	C	G-1	FSE PI	Q RF		
VP*MOV511B	3	B	18	BF	MO	O	C	G-3	FSE PI	Q RF		
NP*RV119	3	AC	1	RV	SA	C	O&C	B-16	LR SP	RF RF3		Drywell Bypass Test
NP*RV140	2	AC	3/4	RV	SA	C	O&C	N-17	LR SP	RF RF3		Drywell Bypass Test
WP*V172	3	C	30	CK	SA	C	O	P-5	FSE	RF	27	
WP*V173	3	C	30	CK	SA	C	O	N-5	FSE	RF	"	
WP*V174	3	AC	12	CK	SA	O	O&C	O-18	FSE LR	CS RF	42	10 CFR 50, APP. J Test

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9 100	118	SWP	6/1/94	0001	SERVICE WATER NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SWP*V175	3	AC	12	CK	SA	O	O&C	B 18	FSE LR	CS RF	42	10 CFR 50, APP. J Test
1SWP*V203	3	C	8	CK	SA	C	O	E 18	FSE	RF	11	
1SWP*V204	3	C	8	CK	SA	C	O	C 18	FSE	RF	11	
1SWP*V650	3	C	10	CK	SA	O	O&C	L 17	FSE	CS	52	
1SWP*V651	3	C	10	CK	SA	O	O&C	H 17	FSE	CS	52	

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
9 10F	116	SWP	6/1/94	0001	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E12*MOVF068A	3	B	18	BF	MO	C	O	K 6	FSE PI	O RF		
1E12*MOVF068B	3	B	18	BF	MO	C	O	J 3	FSE PI	O RF		
1SWP*AOV51B	3	B	2	GL	AO	C	O	E 21	FSE FS PI	O O RF		
1SWP*MOV73B	3	B	4	GA	MO	O	O&C	D 17	FSE PI	O RF		
1SWP*MOV74B	3	B	4	GA	MO	O	O&C	K 14	FSE PI	O RF		
1SWP*SOV522A	2	A	1	GL	SO	C	O&C	B 18	FSE PI LR	CS RF RF	30	 10 CFR 50, APP. J Test
1SWP*SOV522B	2	A	1	GL	SO	C	O&C	B 13	FSE PI LR	CS RF RF	30	 10 CFR 50, APP. J Test
1SWP*SOV522C	2	A	1	GL	SO	C	O&C	B 17	FSE PI LR	CS RF RF	30	 10 CFR 50, APP. J Test

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #	System Name
9 10f	118	SWP	6/1/94	0001	SERVICE WATER NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
WP*SOV522D	2	A	1	GL	SO	C	O&C	B 12	FSE PI LR	CS RF RF	30	10 CFR 50, APP. J Test
WP*SOV523B	3	B	3/4	GA	SO	C	O&C	N 12	FSE PI	CS RF	30	
WP*SOV523D	3	B	3/4	GA	SO	C	O&C	N 11	FSE PI	CS RF	30	
SWP*SOV552A	3	B	3/4	GL	SO	O	C	B 15	FSE PI	CS RF	30	
SWP*SOV552B	3	B	3/4	GL	SO	O	C	B 10	FSE PI	CS RF	30	
SWP*V199	3	C	18	CK	SA	C	O	J 6	FSE	O		
SWP*V200	3	C	18	CK	SA	C	O	J 3	FSE	O		
SWP*V1086	3	C	3/4	CK	SA	C	O&C	B 16	FSE	CS	30	
SWP*V1087	3	C	3/4	CK	SA	C	O&C	B 11	FSE	CS	30	
SWP*V1091	2	C	3/4	CK	SA	C	O	A 17	FSE	CS	30	
SWP*V1092	2	C	3/4	CK	SA	C	O	B 12	FSE	CS	30	

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9 10F	118	SWP	6/1/94	0001	SERVICE WATER NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
P*V1095	2	C	3/4	CK	SA	C	O	B 18	FSE	CS	30	
P*V1098	2	C	3/4	CK	SA	C	O	B 13	FSE	CS	30	
P*V1103	3	C	3/4	CK	SA	C	O	M 11	FSE	CS	30	

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name
12 2C	121	SAS	6/1/94	0001	AIR SERVICE & BREATHING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SAS*MOV102	2	A	4	GA	MO	O	C	B 16	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1SAS*MOV103	2	A	4	GA	MO	O	C	B 17	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1SAS*V486	2	AC	4	CK	SA	O	C	C 15	FSE	RF	26	
									LR	RF		10 CFR 50, APP. J Test
1SAS*V489	2	A	4	GA	MA	LC	LC	F 14	LR	RF		Drywell Bypass Test

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P&ID: 12 1B | System #: 122 | System Alpha: IAS | Page Rev. Date: 6/1/94 | ISTCR #: 0001 | System Name: AIR INSTRUMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	ASME Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1IAS*SOV36A	3	B	2	GA	SO	O	C	H 3	FSE FS PI	O O RF		
1IAS*SOV36B	3	B	2	GA	SO	O	C	H 5	FSE FS PI	O O RF		
1IAS*SOV45A	3	B	2	GA	SO	O	C	M 16	FSE FS PI	O O RF		
1IAS*SOV45B	3	B	2	GA	SO	O	C	M 18	FSE FS PI	O O RF		
1IAS*V514	3	C	2	CK	SA	O	O&C	J 5	FSE	CS	29	
1IAS*V515	3	C	2	CK	SA	O	O&C	J 3	FSE	CS	29	
1IAS*V608	3	C	2	CK	SA	O	O&C	M 17	FSE	CS	29	
1IAS*V609	3	C	2	CK	SA	O	O&C	M 17	FSE	CS	29	

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12 1C	122	IAS	6/1/94	0001	AIR INSTRUMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	ASME Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
IAS*MOV106	2	A	3	GA	MO	O	C	G 8	FSE	CS	12	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
IAS*MOV107	2	A	3	GA	MO	O	C	G 8	FSE	CS	12	
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
IAS*SOV41A	3	B	2	GA	SO	O	C	L 3	FSE	O		
									FS	O		
									PI	RF		
IAS*SOV41B	3	B	2	GA	SO	O	C	M 3	FSE	O		
									FS	O		
									PI	RF		
IAS*V78	2	AC	3	CK	SA	O	C	H 11	FSE	RF	02	
									LR	RF		Drywell Bypass Test
IAS*V80	2	AC	3	CK	SA	O	C	G 9	FSE	RF	26	
									LR	RF		10 CFR 50, APP. J Test
IAS*V562	3	C	2	CK	SA	O	O&C	L 3	FSE	CS	29	
IAS*V563	3	C	2	CK	SA	O	O&C	M 3	FSE	CS	29	

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27 16A	201	SLC	6/1/94	0091	STANDBY LIQUID CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
*MOVF001A	2	B	3	GL	MO	C	O	H 15	FSE PI	CS RF	18	
*MOVF001B	2	B	3	GL	MO	C	O	D 15	FSE PI	CS RF	18	
*RVF029A	2	C	1.5	RV	SA	C	O&C	J 11	SP	RF1		1400 psig
*RVF029B	2	C	1.5	RV	SA	C	O&C	E 11	SP	RF3		1400 psig
*VEXF004A	1	D	1.5	XP	XP	C	O	J 7	ET	RF		
*VEXF004B	1	D	1.5	XP	XP	C	O	E 7	ET	RF		
*VF006	1	AC	1.5	CK	SA	C O	C	F 5	FSE LR	RF RF	13	 Drywell Bypass Test
*VF007	1	AC	1.5	CK	SA	C O	C	F 3	FSE LR	RF RF	13	 Drywell Bypass Test
*VF033A	2	C	1.5	CK	SA	C	O	J 10	FSE	O		
*VF033B	2	C	1.5	CK	SA	C	O	E 10	FSE	O		

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2741A	203	CSH	6/1/94	0001	HIGH PRESSURE CORE SPRAY

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
CSH*V12	2	C	1.5	CK	SA	O	O	C-15	FSE	Q		
E22*AOVF005	1	AC	10	CK	SA	C	O&C	H-4	FSE	CS	01	Testable Check Valve
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
E22*MOVF001	2	B	16	GA	MO	O	O&C	H-19	FSE	Q		
									PI	RF		
E22*MOVF004	1	A	10	GA	MO	C	O&C	H-8	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
E22*MOVF010	2	B	10	GL	MO	C	C	L-10	FSE	Q		
									PI	RF		
E22*MOVF011	2	B	10	GL	MO	C	C	N-12	FSE	Q		
									PI	RF		
E22*MOVF012	2	A	4	GA	MO	C	O&C	F-14	FSE	Q		
									PI	RF		
									LR	RF		Water Test
E22*MOVF015	2	A	20	GA	MO	C	O&C	A-9	FSE	Q		
									PI	RF		
									LR	RF		Water Test

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2748A	203	CSH	6/1/94	0001	HIGH PRESSURE CORE SPRAY

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E22*MOVF023	2	A	10	GL	MO	C	C	F-10	FSE PI LR	Q RF RF		 Water Test
1E22*VF002	2	C	16	CK	SA	C	O	K-19	FSE	Q		
1E22*VF007	2	C	1.5	CK	SA	O	O&C	D-14	FSE	Q		
1E22*VF016	2	C	20	CK	SA	C	O	A-11	FSE	Q		
1E22*VF024	2	C	14	CK	SA	C	O&C	H-13	FSE	Q		

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27 7A	204	RHS	6/1/94	0001	RHR (PCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E12*RVF025A	2	C	1.5	RV	SA	C	O&C	F-16	SP	RF		500 psig
1E12*RVF036	2	C	6	RV	SA	C	O&C	N-12	SP		44	75 psig (not tested)
1E12*RVF055A	2	C	4	RV	SA	C	O&C	K-13	SP			500 psig (not tested)
1E12*AOVF041A	1	AC	10	CK	SA	C	O&C	M-3	FSE	CS	01	Testable Check Valve
									PI	RF		
									LR	RF		RCS Boundary Test
1E12*MOVF003A	2	B	14	GL	MO	O	O	L-11	FSE	O		
									PI	RF		
1E12*MOVF004A	2	A	20	GA	MO	O	O&C	B-17	FSE	O		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF006A	2	B	16	GA	MO	C	O&C	B-11	FSE	O		
									PI	RF		
1E12*MOVF006B	2	B	16	GA	MO	C	O&C	D-7	FSE	O		
									PI	RF		
1E12*MOVF008	1	A	18	GA	MO	C	O&C	D-18	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test

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27 7A	204	RHS	6/6/94	0003	RHR - IPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
E12*MOVF009	1	A	18	GA	MO	C	O&C	F-20	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
E12*MOVF011A	2	A	4	GL	MO	C	C	M-11	FSE	O		
									PI	RF		
									LR	RF		Water Test
E12*MOVF023	1	A	4	GL	MO	C	O&C	J-20	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
E12*MOVF024A	2	A	14	BF	MO	C	O&C	E-18	FSE	O		
									PI	RF		
									LR	RF		Water Test
E12*MOVF026A	2	B	4	GA	MO	C	C	N-11	FSE			Valve De-energized
									PI			
E12*MOVF027A	2	A	10	GA	MO	C	O&C	M-6	FSE	O		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
E12*MOVF037A	2	A	10	GL	MO	C	O&C	N-5	FSE	CS	21	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test

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2717A	204	RHS	6/1/94	0001	RHR LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
12*MOVF040	2	B	6	GL	MO	C	C	N 18	FSE PI	CS RF	45	
E12*MOVF042A	1	A	10	GA	MO	C	O&C	M 4	FSE PI LR LR	CS RF RF RF	19	 RCS Boundary Test 10 CFR 50, APP. J Test
E12*MOVF047A	2	B	14	GA	MO	O	O	H 4	FSE PI	O RF		
E12*MOVF048A	2	B	14	GL	MO	O	O&C	K 15	FSE PI	O RF		
E12*MOVF049	2	B	6	GA	MO	O	C	M 19	FSE PI	CS RF	45	
E12*MOVF053A	2	A	10	GL	MO	C	O&C	G 18	FSE PI LR	CS RF RF	19	 10 CFR 50, APP. J Test
E12*MOVF064A	2	A	4	GA	MO	O	O&C	E 15	FSE PI LR	O RF RF		 Water Test
E12*MOVF073A	2	A	2	GL	MO	C	C	H 9	FSE PI LR	O RF RF		 Water Test

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27-7A	204	RHS	6/6/94	0003	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1E12*MOVF074A	2	B	2	GL	MO	C	C	G-9	FSE PI	Q RF		
1E12*MOVF087A	2	B	8	GL	MO	C	C	L-6	FSE PI		44	Valve De-energized
1E12*VF019	1	C	4	CK	SA	C	O	L-20	FSE	CS	07	
1E12*VF031A	2	C	14	CK	SA	C	O&C	D-14	FSE	Q		
1E12*VF046A	2	C	4	CK	SA	C	O	F-15	FSE	Q		
1E12*VF050A	2	C	10	CK	SA	C	C O	H-18	FSE FSE	RF CS	20 62	 Normal Ops
1E12*VF084A	2	C	1.5	CK	SA	O	C O	E-13	FSE FSE	RF Q	24	Disassembly
1E12*VF085A	2	C	1.5	SC	SA	O	C O	E-13	FSE FSE	RF Q	24	Disassembly
1E12*VF099A	2	AP	8	GL	MA	C		N-5	LR	RF		10 CFR 50, APP. J Test
1RHS*RV3A	2	C	4	RV	SA	C	O&C	J-14	SP			485 psig (not tested)
1RHS*V34	2	N/A	14	N/A	N/A	N/A	N/A	C-18	N/A	N/A		Valve Internals Removed - Not Tested

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27-7A	204	RHS	6/1/94	0001	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1RHS*V240	1	AC	1	CK	SA	C	O&C	E 20	FSE	RF	23	
									LR	RF		10 CFR 50, APP. J Test

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27-7B	204	RHS	6/6/94	0003	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E12*AOVF041B	1	AC	10	CK	SA	C	O&C	N-4	FSE	CS	01	Testable Check Valve
									PI	RF		
									LR	RF		RCS Boundary Test
1E12*AOVF098	2	C	10	CK	SA	C	O&C	G-5	FSE	Q		Testable Check Valve
									PI	RF		
1E12*MOVF003B	2	B	14	GL	MO	O	O	E-6	FSE	Q		
									PI	RF		
1E12*MOVF004B	2	A	20	GA	MO	O	O&C	B-19	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF011B	2	A	4	GL	MO	C	C	H-7	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF024B	2	A	14	BF	MO	C	O&C	L-7	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF026B	2	B	4	GA	MO	C	C	J-9	FSE			Valve De-energized
									PI			
1E12*MOVF027B	2	A	10	GA	MO	O	O&C	M-1	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test

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27-7B	204	RHS	6/1/94	0001	RHR LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E12*MOVF037B	2	A	10	GL	MO	C	O&C	N-1	FSE	CS	21	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF042B	1	A	10	GA	MO	C	O&C	N-3	FSE	CS	19	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		RCS Boundary Test
1E12*MOVF047B	2	B	14	GA	MO	O	O	F-11	FSE	O		
									PI	RF		
1E12*MOVF048B	2	B	14	GL	MO	O	O&C	G-9	FSE	O		
									PI	RF		
1E12*MOVF053B	2	A	10	GL	MO	C	O&C	N-9	FSE	CS	19	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF064B	2	A	4	GA	MO	O	O&C	C-15	FSE	O		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF073B	2	A	2	GL	MO	C	C	F-10	FSE	O		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF074B	2	B	2	GL	MO	C	C	E-10	FSE	O		
									PI	RF		

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27-7B	204	RHS	6/1/94	0001	RHR (PCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E12*MOVF087B	2	B	8	GL	MO	C	C	K-12	FSE PI		44	Valve De energized
1E12*MOVF094	3	B	10	GA	MO	C	O&C	G-3	FSE PI	Q RF		
1E12*MOVF096	2	B	10	GA	MO	C	O&C	G-4	FSE PI	Q RF		
1E12*RVF025B	2	C	1.5	RV	SA	C	O&C	G-15	SP	RF1		500 psig
1E12*RVF055B	2	C	4	RV	SA	C	O&C	H-12	SP			500 psig (not tested)
1E12*VF031B	2	C	14	CK	SA	C	O&C	B-13	FSE	Q		
1E12*VF046B	2	C	4	CK	SA	C	O	D-15	FSE	Q		
1E12*VF050B	2	C	10	CK	SA	C	C O	N-9	FSE FSE	RF CS	20 62	 Normal Ops
1E12*VF084B	2	C	1.5	CK	SA	O	C O	B-14	FSE FSE	RF Q	24	Disassembly
1E12*VF085B	2	C	1.5	SC	SA	O	C O	B-13	FSE FSE	RF Q	24	Disassembly
1E12*VF099B	2	AP	8	GL	MA	C		P-2	LR	RF		10 CFR 50, APP. J Test
1RHS*RV3B	2	C	4	RV	SA	C	O&C	H-12	SP			485 psig (not tested)

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27-7B	204	RHS	6/6/94	0003	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
RHS*V65	2	N/A	14	N/A	N/A	N/A	N/A	E-21	N/A	N/A		Valve Internals Removed - Not Tested

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2770	204	RHS	6/1/94	0001	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E12*AOVF041C	1	AC	10	CK	SA	C	O&C	K-5	FSE	CS	01	Testable Check Valve
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF021	2	A	14	GL	MO	C	C	F-8	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF042C	1	A	10	GA	MO	C	O&C	K-3	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF064C	2	A	4	GA	MO	O	O&C	E-10	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF105	2	A	20	GA	MO	O	O&C	B-20	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*RVF025C	2	C	1.5	RV	SA	C	O&C	G-6	SP	RF2		500 psig
1E12*VF031C	2	C	14	CK	SA	C	O&C	D-11	FSE	Q		
1E12*VF046C	2	C	4	CK	SA	C	O	E-9	FSE	Q		

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27-7C	204	RHS	6/6/94	0003	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1E12*VF084C	2	C	1.5	CK	SA	O	C	E-13	FSE	RF	24	Disassembly
							O		FSE	O		
1E12*VF085C	2	C	1.5	SC	SA	O	C	E-12	FSE	RF	24	Disassembly
							O		FSE	O		
1RHS*V64	2	N/A	14	N/A	N/A	N/A	N/A	D-19	N/A	N/A		Valve Internals Removed Not Tested

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27 5A	205	CSL	6/1/94	0001	LOW PRESSURE CORE SPRAY

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
CSL*V10	2	C	4	CK	SA	C	O	H-16	FSE	Q		
E21*AOVF006	1	AC	10	CK	SA	C	O&C	M-7	FSE	CS	01	Testable Check Valve
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
E21*MOVF001	2	A	20	GA	MO	O	O&C	C-11	FSE	Q		
									PI	RF		
									LR	RF		Water Test
E21*MOVF005	1	A	10	GA	MO	C	O&C	M-12	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
E21*MOVF011	2	A	4	GA	MO	O	O&C	H-16	FSE	Q		
									PI	RF		
									LR	RF		Water Test
E21*MOVF012	2	A	10	GL	MO	C	C	K-15	FSE	Q		
									PI	RF		
									LR	RF		Water Test
E21*RVF018	2	C	2	RV	SA	C	O&C	K-13	SP	RF1		570 psig
E21*RVF031	2	C	2	RV	SA	C	O&C	D-12	SP	RF1		100 psig

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2715A	205	CSL	6/1/94	0001	LOW PRESSURE CORE SPRAY

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1E21*VF003	2	C	12	CK	SA	C	O&C	J-21	FSE	0		
1E21*VF033	2	C	1.5	CK	SA	O	O&C	F-17	FSE	0		

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RIVER BEND STATION

INSERVICE TEST PLAN VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev Date	ISTCR #:	System Name:
27-20A	208	MSI	6/1 4	0001	MSIV POSITIVE LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuater	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1B21*MOVF027A	2	B	3/4	GL	MO	O	O&C	K-13	FSE PI	Q RF		
1B21*MOVF027B	2	B	3/4	GL	MO	O	O&C	K-14	FSE PI	Q RF		
1B21*MOVF027C	2	B	3/4	GL	MO	O	O&C	K-12	FSE PI	Q RF		
1B21*MOVF027D	2	B	3/4	GL	MO	O	O&C	K-13	FSE PI	Q RF		
1E33*MOVF005	2	B	2	GL	MO	C	O&C	M-16	FSE PI	Q RF		
1E33*MOVF006	2	B	2	GL	MO	O	O&C	L-16	FSE PI	Q RF		
1E33*MOVF007	2	B	2	GL	MO	C	O&C	L-15	FSE PI	Q RF		
1E33*MOVF008	1	A	2	GL	MO	C	O&C	K-15	FSE PI LR	Q RF RF		PVLCS Div. Test
1E33*MOVF025	2	B	2	GL	MO	C	O&C	M-8	FSE PI	Q RF		

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INSERVICE TEST PLAN - VALVES
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27 20A	208	MSI	6/1/94	0001	MSIV POSITIVE LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
E33*MOVF026	2	B	2	GL	MO	O	O&C	L-7	FSE PI	Q RF		
E33*MOVF027	2	B	2	GL	MO	C	O&C	L-6	FSE PI	Q RF		
E33*MOVF028	2	B	2	GL	MO	C	O&C	L-6	FSE PI	Q RF		
E33*SOVF014	2	B	2	GL	SO	C	O&C C	L-18	FSE FS PI	Q Q RF		
1E33*VF004	2	C	2	CK	SA	O	O	M-17	FSE	Q		
1E33*VF024	2	C	2	CK	SA	O	O	M-8	FSE	CS		

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INSERVICE TEST PLAN - VALVES
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27-6A	209	ICS	6/1/94	0001	REACTOR CORE ISOLATION COOLING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E51*AOVF065	1	AC	6	CK	SA	C	O&C	N-12	FSE	CS	01	Testable Check Valve
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
1E51*AOVF066	1	AC	6	CK	SA	C	O&C	P-19	FSE	CS	01	Testable Check Valve
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E51*MOVC002	2	B	12	GA	MO	O	O&C	K-7	FSE	O		
									PI	RF		
1E51*MOVF010	2	B	6	GA	MO	O	O&C	B-13	FSE	O		
									PI	RF		
1E51*MOVF013	1	A	6	GA	MO	C	O&C	N-11	FSE	CS	53	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
1E51*MOVF019	2	A	2	GL	MO	C	O&C	M-13	FSE	O		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E51*MOVF022	2	B	4	GL	MO	C	C	L-7	FSE	O		
									PI	RF		

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27-6A	209	ICS	6/1/94	0001	REACTOR CORE ISOLATION COOLING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1E51*MOVF031	2	A	6	GA	MO	C	O&C	A-13	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E51*MOVF045	2	B	12	GL	MO	C	O	K-8	FSE	Q		
									PI	RF		
1E51*MOVF046	2	B	2	GL	MO	C	O	N-5	FSE	Q		
									PI	RF		
1E51*MOVF059	2	B	4	GA	MO	C	C	L-5	FSE	Q		
									PI	RF		
1E51*MOVF063	1	A	8	GA	MO	O	O&C	K-15	FSE	CS	60	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E51*MOVF064	1	A	8	GA	MO	O	O&C	K-13	FSE	CS	60	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E51*MOVF068	2	A	12	GA	MO	O	O&C	F-11	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E51*MOVF076	1	A	3/4	GL	MO	C	O&C	J-15	FSE	CS	60	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test

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2716A	209	ICS	6/1/94	0001	REACTOR CORE ISOLATION COOLING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E51*MOVF077	2	A	1.5	GL	MO	O	O&C	G-11	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E51*MOVF078	2	A	2.5	GL	MO	O	O&C	G-13	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E51*RVF018	2	C	1.5	RV	SA	C	O&C	P-2	SP	RF2		125 psig
1E51*VF011	2	C	6	CK	SA	C	O&C	B-9	FSE	Q		
1E51*VF036	2	C	6	CK	SA	C	O&C	A-11	FSE	RF		
1E51*VF040	2	C	12	CK	SA	C	C	F-10	FSE	CS		
							O		FSE	Q		
1E51*VF061	2	C	1.5	CK	SA	O	C	C-8	FSE	CS		
							O		FSE	Q		
1E51*VF079	2	C	1.5	CK	SA	C	O	G-11	FSE	CS		
1E51*VF081	2	C	1.5	CK	SA	C	O	G-12	FSE	CS		
1ICS*V21	2	C	2	CK	SA	C	O	M-11	FSE	Q		

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15-1C	251	FPW	6/1/94	0001	FIRE PROTECTION WATER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1FPW*MOV121	3	A	6	GA	MO	C	C	P-16	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1FPW*MOV122	3	A	6	GA	MO	C	C	P-17	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1FPW*V263	3	AC	6	CK	SA	C	C	P-14	FSE	RF	26	
									LR	RF		10 CFR 50, APP. J Test

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27-21A	254	CPM	6/1/94	0001	H2 MIXING, PURGE & RECOMBINER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1CPM*MOV1A	2	A	6	BF	MO	C	O&C	J-18	FSE	CS	54	
									PI	RF		
									LR	RF		Drywell Bypass Test
1CPM*MOV1B	2	A	6	BF	MO	C	O&C	J-14	FSE	CS	54	
									PI	RF		
									LR	RF		Drywell Bypass Test
1CPM*MOV2A	2	A	6	BF	MO	C	O&C	G-14	FSE	CS	54	
									PI	RF		
									LR	RF		Drywell Bypass Test
1CPM*MOV2B	2	A	6	BF	MO	C	O&C	G-18	FSE	CS	54	
									PI	RF		
									LR	RF		Drywell Bypass Test
1CPM*MOV3A	2	A	6	BF	MO	C	O&C	J-17	FSE	CS	54	
									PI	RF		
									LR	RF		Drywell Bypass Test
1CPM*MOV3B	2	A	6	BF	MO	C	O&C	J-15	FSE	CS	54	
									PI	RF		
									LR	RF		Drywell Bypass Test
1CPM*MOV4A	2	A	6	BF	MO	C	O&C	G-14	FSE	CS	54	
									PI	RF		
									LR	RF		Drywell Bypass Test

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27-21A	254	CPM	6/1/94	0001	H2 MIXING, PURGE & RECOMBINER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CPM*MOV48	2	A	6	BF	MO	C	O&C	G-17	FSE	CS	54	
									PI	RF		
									LR	RF		Drywell Bypass Test
1CPP*MOV104	2	A	3	GA	MO	C	O&C	F-3	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CPP*MOV105	2	A	3	GA	MO	C	O&C	H-2	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CPP*SOV140	2	A	1	GA	SO	C	O&C	H-10	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CPP*V2	2	C	1	CK	SA	C	O	K-10	FSE	Q		

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-20B	255	LSV	6/1/94	0001	MSIV & PENE. VLV LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1LSV*MOV11A	2	B	1	GL	MO	C	O&C	E-10	FSE PI	Q RF		
1LSV*MOV11B	2	B	1	GL	MO	C	O&C	F-9	FSE PI	Q RF		
1LSV*MOV13A	2	B	1	GL	MO	C	O&C	M-8	FSE PI	Q RF		
1LSV*MOV13B	2	B	1	GL	MO	C	O&C	P-8	FSE PI	Q RF		
1LSV*MOV15A	2	B	1	GL	MO	C	O&C	L-9	FSE PI	Q RF		
1LSV*MOV15B	2	B	1	GL	MO	C	O&C	L-8	FSE PI	Q RF		
1LSV*MOV16A	2	B	1	GL	MO	C	O&C	L-9	FSE PI	Q RF		
1LSV*MOV16B	2	B	1	GL	MO	C	O&C	L-8	FSE PI	Q RF		
1LSV*MOV19A	2	B	2	GA	MO	C	O	D-11	FSE PI	Q RF		
1LSV*MOV19B	2	B	2	GA	MO	C	O	N-11	FSE PI	Q RF		

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INSERVICE TEST PLAN - VALVES
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27-20B	255	LSV	6/1/94	0001	MSIV & PENE. VLV LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1LSV*RV8A	2	C	1X1.5	RV	SA	C	O&C	E-14	SP	RF2		140 psig
1LSV*RV8B	2	C	1X1.5	RV	SA	C	O&C	P-14	SP	RF3		140 psig
1LSV*SOVX26A	2	B		GL		C	O	E-16	FSE	Q		
1LSV*SOVX26B	2	B		GL		C	O	P-16	FSE	Q		
1LSV*SOVY26A	2	B		GL		O	C	E-18	FSE	Q		
1LSV*SOVY26B	2	B		GL		O	C	P-18	FSE	Q		
1LSV*V12	2	C	1	CK	SA	C	O&C	H-17	FSE	RF	04	
1LSV*V18	2	C	1	CK	SA	C	O&C	F-18	FSE	RF	04	
1LSV*V20	2	C	1	CK	SA	C	O&C	D-8	FSE	RF	04	
1LSV*V22	2	C	1	CK	SA	C	O&C	C-9	FSE	RF	04	
1LSV*V24	2	C	1	CK	SA	C	O&C	A-9	FSE	RF	04	
1LSV*V26	2	C	1	CK	SA	C	O&C	N-6	FSE	RF	04	
1LSV*V28	2	C	1	CK	SA	C	O&C	L-6	FSE	RF	04	
1LSV*V30	2	C	1	CK	SA	C	O&C	J-6	FSE	RF	04	
1LSV*V32	2	C	1	CK	SA	C	O&C	H-6	FSE	RF	04	

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27-20B	255	LSV	6/1/94	0001	MSIV & PENE. VLV LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1LSV*V35	2	C	1	CK	SA	C	O&C	H-17	FSE	RF	04	
1LSV*V36	2	C	1	CK	SA	C	O&C	J-14	FSE	RF	04	
1LSV*V42	2	C	1	CK	SA	C	O&C	H-17	FSE	RF	04	
1LSV*V46	2	C	1	CK	SA	C	O&C	H-17	FSE	RF	04	
1LSV*V48	2	C	1	CK	SA	C	O&C	G-17	FSE	RF	04	
1LSV*V50	2	C	1	CK	SA	C	O&C	E-8	FSE	RF	04	
1LSV*V52	2	C	1	CK	SA	C	O&C	C-9	FSE	RF	04	
1LSV*V54	2	C	1	CK	SA	C	O&C	A-9	FSE	RF	04	
1LSV*V56	2	C	1	CK	SA	C	O&C	N-6	FSE	RF	04	
1LSV*V58	2	C	1	CK	SA	C	O&C	M-6	FSE	RF	04	
1LSV*V60	2	C	1	CK	SA	C	O&C	K-6	FSE	RF	04	
1LSV*V62	2	C	1	CK	SA	C	O&C	J-6	FSE	RF	04	
1LSV*V72	2	C	1	CK	SA	C	O&C	K-14	FSE	RF	04	
1LSV*V76	2	C	1	CK	SA	C	O&C	K-14	FSE	RF	04	
1LSV*V82	2	C	2	CK	SA	C	O	N-12	FSE	Q		

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27-208	255	LSV	6/1/94	0001	MSIV & PENE. VLV LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1LSV*V90	2	C	1	CK	SA	C	O&C	K-14	FSE	RF	04	
1LSV*V98	2	C	2	CK	SA	C	O	D-12	FSE	Q		
1LSV*V112	2	C	3/4	CK	SA	O	C	E-18	FSE	Q		
1LSV*V114	2	C	3/4	CK	SA	C	C	D-15	FSE	RF	24	Disassembly
1LSV*V118	2	C	3/4	CK	SA	O	C	P-18	FSE	Q		
1LSV*V120	2	C	1	CK	SA	C	C	N-14	FSE	RF	24	Disassembly

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9-10E	256	SWP	6/1/94	0001	SERVICE WATER - STANDBY

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SWP*AOV599	3	B	16	BF	AO		O&C	H-16	FSE	Q		MR 92 0012
1SWP*MOV40A	3	B	18	BF	MO	C	O&C	G-10	FSE PI	Q RF		
1SWP*MOV40B	3	B	18	BF	MO	C	O&C	G-6	FSE PI	Q RF		
1SWP*MOV40C	3	B	18	BF	MO	C	O&C	G-9	FSE PI	Q RF		
1SWP*MOV40D	3	B	18	BF	MO	C	O&C	G-7	FSE PI	Q RF		
1SWP*MOV55A	3	B	30	BF	MO	C	O&C	F-16	FSE PI	Q RF		
1SWP*MOV55B	3	B	30	BF	MO	C	O&C	G-15	FSE PI	Q RF		
1SWP*V147	3	C	18	CK	SA	C	O&C	F-10	FSE	Q		
1SWP*V148	3	C	18	CK	SA	C	O&C	F-9	FSE	Q		
1SWP*V149	3	C	18	CK	SA	C	O&C	F-6	FSE	Q		
1SWP*V150	3	C	18	CK	SA	C	O&C	F-7	FSE	Q		

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8 9A	309	EGF	6/1/94	0001	DIESEL GENERATOR FUEL OIL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1EGF*V3	3	C	2	CK	SA	C	O	M-14	FSE	Q		
1EGF*V33	3	C	2	CK	SA	C	O	J-14	FSE	Q		
1EGF*V63	3	C	2	CK	SA	C	O	E-14	FSE	Q		

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8 9B	309	EGA	6/1/94	0001	DIESEL GEN. - AIR START

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1EGA*RV5A	3	C	3/4	RV	SA	C	O&C	J-13	SP	RF1		275 psig
1EGA*RV5B	3	C	3/4	RV	SA	C	O&C	C-13	SP	RF2		275 psig
1EGA*RV5C	3	C	3/4	RV	SA	C	O&C	K-10	SP	RF2		275 psig
1EGA*RV5D	3	C	3/4	RV	SA	C	O&C	G-10	SP	RF3		275 psig
1EGA*RV6A	3	C	3/4	RV	SA	C	O&C	N-13	SP	RF1		275 psig
1EGA*RV6B	3	C	3/4	RV	SA	C	O&C	G-13	SP	RF2		275 psig
1EGA*RV6C	3	C	3/4	RV	SA	C	O&C	N-10	SP	RF3		275 psig
1EGA*RV6D	3	C	3/4	RV	SA	C	O&C	G-10	SP	RF3		275 psig
1EGA*SOVX11A	4	B	3	GA	SO	C	O&C C	L-5	FSE FS	O O	56	
1EGA*SOVX11B	4	B	3	GA	SO	C	O&C C	D-5	FSE FS	O O	56	
1EGA*SOVY11A	4	B	3	GA	SO	C	O&C C	M-5	FSE FS	O O	56	
1EGA*SOVY11B	4	B	3	GA	SO	C	O&C C	E-5	FSE FS	O O	56	
1EGA*V102	3	C	1.5	CK	SA	C	C	J-12	FSE	O		

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8 9B	309	EGA	6/1/94	0001	DIESEL GEN. AIR START

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1EGA*V115	3	C	1.5	CK	SA	C	C	M-12	FSE	Q		
1EGA*V126	3	C	1.5	CK	SA	C	C	B-12	FSE	Q		
1EGA*V137	3	C	1.5	CK	SA	C	C	F-12	FSE	Q		
1EGA*V147	3	C	1.5	CK	SA	C	O	M-8	FSE	Q		
1EGA*V148	3	C	6	CK	SA	C	O	L-8	FSE	Q		
1EGA*V151	3	C	6	CK	SA	C	O	E-8	FSE	Q		
1EGA*V152	3	C	6	CK	SA	C	O	D-8	FSE	Q		

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P&ID: 8 9D | System #: 309 | System Alpha: CSH | Page Rev. Date: 6/1/94 | ISTCR #: 0001 | System Name: DIESEL GENERATOR - HPCS

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CSH*AOV233	4	B	2	GL	AO	C	O O	M-20	FSE FS PI	Q Q RF		
1CSH*AOV262	4	B	2	GL	AO	C	O O	M-14	FSE FS PI	Q Q RF		
1CSH*SOV234	4	B	1/2	GL	SO	C	O O	K-19	FSE FS PI	Q Q RF	56	
1CSH*SOV247	4	B	1/2	GL	SO	C	O O	K-15	FSE FS PI	Q Q RF	56	
1E22*SKDS1V5	4	C	1.5	CK	SA	C	C	G-21	FSE	Q		
1E22*SKDS1V6	4	C	1.5	CK	SA	C	C	G-14	FSE	Q		

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-9A	402	HVC	6/1/94	0001	HVAC - CONTROL BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1HVC*MOV1A	3	B	24	BF	MO	O	O&C	J-12	FSE PI	Q RF		
1HVC*MOV1B	3	B	24	BF	MO	O	O&C	J-12	FSE PI	Q RF		

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22-18	403	HVR	6/1/94	0001	HVAC CONTAINMENT BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVR*AOV123	2	A	36	BF	AO	C	O&C C	C-11	FSE FS PI LR	Q Q RF Q	59	 10 CFR 50, APP. J Test
1HVR*AOV125	2	A	24	BF	AO	C	O&C C	C-9	FSE FS PI LR	CS CS RF RF	37	 Drywell Bypass Test
1HVR*AOV126	2	A	24	BF	AO	C	O&C C	N-18	FSE FS PI LR	CS CS RF RF	37	 Drywell Bypass Test
1HVR*AOV128	2	A	36	BF	AO	C	O&C C	N-17	FSE FS PI LR	Q Q RF Q	59	 10 CFR 50, APP. J Test
1HVR*AOV147	2	A	24	BF	AO	C	O&C C	D-9	FSE FS PI LR	CS CS RF RF	37	 Drywell Bypass Test
1HVR*AOV148	2	A	24	BF	AO	C	O&C C	N-19	FSE FS PI LR	CS CS RF RF	37	 Drywell Bypass Test

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22 1B	403	HVR	6/1/94	0001	HVAC CONTAINMENT BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1HVR*AOV165	2	A	36	BF	AO	C	O&C	D-12	FSE	Q	59	
							C		FS	Q		
									PI	RF		
									LR	Q		10 CFR 50, APP. J Test
1HVR*AOV166	2	A	36	BF	AO	C	O&C	N-14	FSE	Q	59	
							C		FS	Q		
									PI	RF		
									LR	Q		10 CFR 50, APP. J Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-1C	403	HVR	6/1/94	0001	HVAC CONTAINMENT BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1HVR*AOD23A	-	B	18X12	DP	AO	O	O&C C	E-10	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVR*AOD23B	-	B	18X12	DP	AO	O	O&C C	D-10	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVR*AOD161	-	B	18X12	DP	AO	O	O&C C	B-12	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-6A	406	HVF	6/1/94	0001	HVAC FUEL BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVF*AOD102		B	30X24	DP	AO	O	O&C C	B-17	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVF*AOD104		B	30X24	DP	AO	O	O&C C	F-3	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVF*AOD112		B	30X24	DP	AO	O	O&C C	B-16	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVF*AOD137		B	30X24	DP	AO	O	O&C C	G-3	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-68	406	HVF	6/1/94	0001	HVAC FUEL BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1HVF*AOD101	-	B	36X36	DP	AO	O	O&C	N-15	FSE	O		Damper, T.S. 4.6.5.3
									FS	O		
									PI	RF		
1HVF*AOD122	-	B	36X36	DP	AO	O	O&C C	N-16	FSE	O		Damper, T.S. 4.6.5.3
									FS	O		
									PI	RF		

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22-1D	409	HVR	6/1/94	0001	HVAC AUXILIARY BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVR*AOD10A		B	30X24	DP	AO	O	O&C C	N-6	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVR*AOD10B		B	30X24	DP	AO	O	O&C C	M-6	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVR*AOD143		B	36X48	DP	AO	O	O&C C	L-19	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVR*AOD164		B	36X48	DP	AO	O	O&C C	M-19	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVR*AOD214		B	36X36	DP	AO	O	O&C C	N-13	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVR*AOD249		B	30X24	DP	AO	O	O&C C	N-5	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVR*AOD262		B	36X36	DP	AO	O	O&C C	N-13	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-140	410	HVN	6/1/94	0001	HVAC CHILLED WATER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVN*MOV22A	3	B	6	GA	MO	O	C	K-3	FSE	Q		
									PI	RF		
1HVN*MOV22B	3	B	6	GA	MO	O	C	J-3	FSE	Q		
									PI	RF		
1HVN*MOV102	2	A	8	GA	MO	O	C	K-2	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1HVN*MOV127	2	A	8	GA	MO	O	C	J-11	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1HVN*MOV128	2	A	8	GA	MO	O	C	D-3	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1HVN*MOV129	2	A	8	GA	MO	O	C	J-11	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test

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P&ID: 22-140 | System #: 410 | System Alpha: HVN | Page Rev. Date: 6/1/94 | ISTCR #: 0001 | System Name: HVAC CHILLED WATER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position: Normal	Position: Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVN*MOV130	2	A	8	GA	MO	O	C	D-4	FSE PI LR LR	Q RF RF RF		 PVLCS Valve Test PVLCS Div. Test
1HVN*V541	2	AC	8	CK	SA	O	C	L-10	FSE LR	RF RF	26	 10 CFR 50, APP. J Test
1HVN*V542	2	A	8	GA	MA	C	C	K-8	LR	RF		Drywell Bypass Test
1HVN*V543	2	A	8	GA	MA	C	C	K-4	LR	RF		Drywell Bypass Test
1HVN*V544	3	C	6	CK	SA	O	O	K-6	FSE	Q		
1HVN*V545	3	C	6	CK	SA	O	O	H-8	FSE	Q		
1HVN*V546	3	C	6	CK	SA	O	O	M-3	FSE	Q		
1HVN*V547	3	C	6	CK	SA	C	O	G-3	FSE	Q		
1HVN*V1316	2	AC	3/4	CK	SA	C	C	J-2	FSE LR	RF RF	26	 10 CFR 50, APP. J Test

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22-14H	410	HVK	6/1/94	0001	HVAC CHILLED WATER

VALVE INFORMATION									TEST INFORMATION			REMARKS	
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief		
1HVK*MOV10B	3	B	2	GL	MO	C	C	N-14	FSE PI	Q RF			
1HVK*MOV11B	3	B	2	GL	MO	C	O&C	K-14	FSE PI	Q RF			
1HVK*MOV20B	3	B	6	BF	MO	O	O&C	K-9	FSE PI	Q RF			
1HVK*MOV20D	3	B	6	BF	MO	C	O&C	H-9	FSE PI	Q RF			
1HVK*RV45B	3	B	6	RV	SA	C	O&C	K-17	SP	RF1		50 psig	
1HVK*V82	3	C	6	CK	SA	C	O	K-10	FSE	Q			
1HVK*V83	3	C	6	CK	SA	C	O	H-9	FSE	Q			
1HVK*V97	3	C	2	CK	SA	C	O	K-14	FSE	RF	24	Disassembly	
1HVK*V98	3	C	2	CK	SA	C	O	M-14	FSE	Q			

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22-14J	410	HVK	6/1/94	0001	HVAC CHILLED WATER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVK*MOV10A	3	B	2	GL	MO	C	C	M-14	FSE PI	Q RF		
1HVK*MOV11A	3	B	2	GL	MO	C	O&C	K-14	FSE PI	Q RF		
1HVK*MOV20A	3	B	6	BF	MO	O	O&C	K-9	FSE PI	Q RF		
1HVK*MOV20C	3	B	6	BF	MO	C	O&C	H-9	FSE PI	Q RF		
1HVK*RV45A	3	C	2	RV	SA	C	O&C	K-17	SP	RF3		50 psig
1HVK*V33	3	C	6	CK	SA	C	O	K-10	FSE	Q		
1HVK*V34	3	C	6	CK	SA	C	O	H-9	FSE	Q		
1HVK*V48	3	C	2	CK	SA	C	O	K-14	FSE	RF	24	Disassembly
1HVK*V49	3	C	2	CK	SA	C	O	L-14	FSE	Q		

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33-2A	552	CMS	6/1/94	0001	CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CMS*SOV31B	2	A	3/4	GL	SO	O	A-I	G-5	FSE FS PI LR	Q Q RF RF		Fail As Is 10 CFR 50, APP. J Test
1CMS*SOV31D	2	A	3/4	GL	SO	O	A-I	F-5	FSE FS PI LR	Q Q RF RF		Fail As Is 10 CFR 50, APP. J Test
1CMS*SOV33B	2	B	3/4	GL	SO	C	O&C C	J-13	FSE FS PI	Q Q RF		
1CMS*SOV33BB	2	B	3/4	GL	SO	C	O&C C	K-6	FSE FS PI	Q Q RF		
1CMS*SOV33D	2	B	3/4	GL	SO	C	O&C C	K-13	FSE FS PI	Q Q RF		
1CMS*SOV33F	2	B	3/4	GL	SO	C	O&C C	J-14	FSE FS PI	Q Q RF		
1CMS*SOV33H	2	B	3/4	GL	SO	C	O&C C	K-12	FSE FS PI	Q Q RF		

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33-2A	552	CMS	6/1/94	0001	CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CMS*SOV33K	2	B	3/4	GL	SO	C	O&C C	J-11	FSE FS PI	Q Q RF		
1CMS*SOV33T	2	B	3/4	GL	SO	C	O&C C	K-10	FSE FS PI	Q Q RF		
1CMS*SOV33V	2	B	3/4	GL	SO	C	O&C C	J-9	FSE FS PI	Q Q RF		
1CMS*SOV33X	2	B	3/4	GL	SO	C	O&C C	K-8	FSE FS PI	Q Q RF		
1CMS*SOV33Z	2	B	3/4	GL	SO	C	O&C C	J-7	FSE FS PI	Q Q RF		
1CMS*SOV34B	2	A	3/4	GL	SO	C	O&C C	G-15	FSE FS PI LR	Q Q RF RF		Drywell Bypass Test
1CMS*SOV34D	2	A	3/4	GL	SO	C	O&C C	H-15	FSE FS PI LR	Q Q RF RF		Drywell Bypass Test

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33-2A	552	CMS	6/1/94	0001	CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CMS*SOV35B	2	A	3/4	GL	SO	O	A-I	F-6	FSE	Q		Fail As Is
									FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CMS*SOV35D	2	A	3/4	GL	SO	O	A-I	G-6	FSE	Q		Fail As Is
									FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CMS*V41	2	AC	3/4	CK	SA	O	C	F-15	FSE	RF	02	
									LR	RF		Drywell Bypass Test

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33-2B	552	CMS	6/1/94	0001	CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1CMS*SOV31A	2	A	3/4	GL	SO	O	A-I	G-19	FSE FS PI LR	Q Q RF RF		Fail As-Is 10 CFR 50, APP. J Test
1CMS*SOV31C	2	A	3/4	GL	SO	O	A-I	G-19	FSE FS PI LR	Q Q RF RF		Fail As-Is 10 CFR 50, APP. J Test
1CMS*SOV32A	2	A	3/4	GL	SO	O	A-I	H-7	FSE FS PI LR	Q Q RF RF		Fail As-Is Drywell Bypass Test
1CMS*SOV32G	2	A	3/4	GL	SO	O	A-I	F-7	FSE FS PI LR	Q Q RF RF		Fail As-Is Drywell Bypass Test
1CMS*SOV33A	2	B	3/4	GL	SO	C	O&C C	K-15	FSE FS PI	Q Q RF		
1CMS*SOV33AA	2	B	3/4	GL	SO	C	O&C C	K-7	FSE FS PI	Q Q RF		

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33 2B	552	CMS	6/1/94	0001	CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1CMS*SOV33C	2	B	3/4	GL	SO	C	O&C C	K-16	FSE FS PI	Q Q RF		
1CMS*SOV33E	2	B	3/4	GL	SO	C	O&C C	K-17	FSE FS PI	Q Q RF		
1CMS*SOV33G	2	B	3/4	GL	SO	C	O&C C	K-14	FSE FS PI	Q Q RF		
1CMS*SOV33J	2	B	3/4	GL	SO	C	O&C C	K-13	FSE FS PI	Q Q RF		
1CMS*SOV33S	2	B	3/4	GL	SO	C	O&C C	K-12	FSE FS PI	Q Q RF		
1CMS*SOV33U	2	B	3/4	GL	SO	C	O&C C	K-11	FSE FS PI	Q Q RF		
1CMS*SOV33W	2	B	3/4	GL	SO	C	O&C C	K-10	FSE FS PI	Q Q RF		

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P&ID: 33-2B | System #: 552 | System Alpha: CMS | Page Rev. Date: 6/1/94 | ISTCR #: 0001 | System Name: CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CMS*SOV33Y	2	B	3/4	GL	SO	C	O&C C	K-9	FSE FS PI	Q Q RF		
1CMS*SOV34A	2	A	3/4	GL	SO	C	O&C C	G-7	FSE FS PI LR	Q Q RF RF		Drywell Bypass Test
1CMS*SOV34C	2	A	3/4	GL	SO	C	O&C C	G-7	FSE FS PI LR	Q Q RF RF		Drywell Bypass Test
1CMS*SOV35A	2	A	3/4	GL	SO	O	A-I	G-16	FSE FS PI LR	Q Q RF RF		Fail As-Is 10 CFR 50, APP. J Test
1CMS*SOV35C	2	A	3/4	GL	SO	O	A-I	G-16	FSE FS PI LR	Q Q RF RF		Fail As-Is 10 CFR 50, APP. J Test
1CMS*V40	2	AC	3/4	CK	SA	C	C	F-7	FSE LR	RF RF	02	Drywell Bypass Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
33 2C	552	LMS	6/1/94	0001	CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1LMS*V3	2	AP	3/4	GA	MA	LC	LC	J-17	LR	RF		Drywell Bypass Test
1LMS*V7	2	AP	3/4	GA	MA	LC	LC	J-15	LR	RF		10 CFR 50, APP. J Test
1LMS*V12	2	AP	3/4	GA	MA	LC	LC	N-12	LR	RF		10 CFR 50, APP. J Test
1LMS*V14	2	AP	3/4	GA	MA	LC	LC	L-15	LR	RF		10 CFR 50, APP. J Test
1LMS*V16	2	AP	3/4	GA	MA	LC	LC	J-13	LR	RF		10 CFR 50, APP. J Test

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26 3A	601	WCS	6/1/94	0001	REACTOR WATER CLEANUP & FILTER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1G33*MOVF001	1	A	6	GA	MO	O	C	K-9	FSE	CS	55	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1G33*MOVF004	1	A	6	GA	MO	O	C	K-12	FSE	CS	55	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1G33*MOVF028	2	A	4	GA	MO	C	C	E-16	FSE	O		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1G33*MOVF034	2	A	4	GA	MO	C	C	E-15	FSE	O		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1G33*MOVF039	2	A	6	GA	MO	O	C	H-3	FSE	CS	55	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1G33*MOVF040	2	A	6	GA	MO	O	C	H-5	FSE	CS	55	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
26-3A	601	WCS	6/1/94	0001	REACTOR WATER CLEANUP & FILTER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1G33*MOVF053	2	A	4	GA	MO	O	C	J-21	FSE	CS	55	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1G33*MOVF054	2	A	4	GA	MO	O	C	L-20	FSE	CS	55	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1WCS*MOV111	2	A	4	GA	MO	C	C	E-14	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1WCS*RV144	2	AC	3/4	RV	SA	C	O&C	G-16	LR	RF		10 CFR 50, APP. J Test
									SP	RF1		1410 psig

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INSERVICE TEST PLAN - VALVES

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
26 3B	601	WCS	6/1/94	0001	REACTOR WATER CLEANUP & FILTER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1G36*RVF081A	2	C	1.5	RV	SA	C	O&C	L-10	SP	RF2		1410 psig
1G36*RVF081B	2	C	1.5	RV	SA	C	O&C	D-10	SP	RF3		1410 psig
1WCS*MOV172	2	A	2.5	GA	MO	O	C	D-4	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1WCS*MOV173	2	A	2.5	GA	MO	O	C	D-4	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1WCS*MOV178	2	A	2.5	GA	MO	O	C	D-2	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1WCS*RV154	2	AC	3/4	RV	SA	C	O&C	D-2	LR	RF		10 CFR 50, APP. J Test
									SP	RF2		150 psig

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INSERVICE TEST PLAN - VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
34 2A	602	SFC	6/1/94	0001	FUEL POOL COOLING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SFC*MOV119	2	A	12	GA	MO	O	C	J-11	FSE PI LR	Q RF RF		10 CFR 50, APP. J Test
1SFC*MOV120	2	A	12	GA	MO	C	C	L-10	FSE PI LR	Q RF RF		10 CFR 50, APP. J Test
1SFC*MOV121	2	A	8	GA	MO	O	C	N-11	FSE PI LR	Q RF RF		10 CFR 50, APP. J Test
1SFC*MOV122	2	A	12	GA	MO	C	C	M-11	FSE PI LR	Q RF RF		10 CFR 50, APP. J Test
1SFC*MOV139	2	A	8	GA	MO	O	C	N-10	FSE PI LR	Q RF RF		10 CFR 50, APP. J Test
1SFC*V39	3	C	12	CK	SA	C	O	H-18	FSE	Q		
1SFC*V40	3	C	12	CK	SA	O	O	E-19	FSE	Q		
1SFC*V41	3	C	12	CK	SA	O	O	D-19	FSE	Q		
1SFC*V59	3	C	10	CK	SA	O	O	D-13	FSE	Q		

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
34 2A	602	SFC	6/1/94	0001	FUEL POOL COOLING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SFC*V60	3	C	10	CK	SA	O	O	D-10	FSE	Q		
1SFC*V61	3	C	10	CK	SA	O	O	G-13	FSE	Q		
1SFC*V62	3	C	10	CK	SA	O	O	G-9	FSE	Q		
1SFC*V101	2	AC	12	CK	SA	O	C	J-9	FSE LR	RF RF	26	10 CFR 50, APP. J Test
1SFC*V350	2	AC	3/4	CK	SA	C	O C	L-10	FSE LR	Q RF	51	10 CFR 50, APP. J Test
1SFC*V351	2	AC	3/4	CK	SA	C	O C	N-9	FSE LR	Q RF	51	10 CFR 50, APP. J Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32-58	609	DTM	6/1/94	0001	DRAINS FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1B21*MOVF016	1	A	3	GA	MO	O	C	D-12	FSE	Q		
									PI	RF		
									LR	RF		
1B21*MOVF019	1	A	3	GA	MO	O	C	D-10	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*MOVF067A	1	A	1.5	GL	MO	O	C	K-14	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*MOVF067B	1	A	1.5	GL	MO	O	C	K-19	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*MOVF067C	1	A	1.5	GL	MO	O	C	K-12	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*MOVF067D	1	A	1.5	GL	MO	O	C	K-17	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*MOVF085	2	A	3	GA	MO	O	C	D-10	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Div. Test

RIVER BEND STATION

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32 5B	609	DTM	6/1/94	0001	DRAINS FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1B21*MOVF096	2	A	3	GA	MO	O	C	K-11	FSE PI LR	Q RF RF		PVLCS Div. Test
1E51*AOVF025	2	B	1	GL	AO	O	O&C C	D-18	FSE FS PI	Q Q RF		
1E51*AOVF026	2	B	1	GL	AO	O	O&C C	C-18	FSE FS PI	Q Q RF		
1E51*AOVF054	2	B	1	GL	AO	C	O&C C	B-18	FSE FS PI	Q Q RF		

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32-9A	609	DFR	6/1/94	0901	DRAINS FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuater	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1DFR*V1	2	AC	8	CK	SA	O	C	C-20	FSE	RF	02	
									LR	RF		Drywell Bypass Test
1DFR*V2	2	AC	8	CK	SA	O	C	C-20	FSE	RF	02	
									LR	RF		Drywell Bypass Test
1DFR*V3	2	AC	8	CK	SA	O	C	C-13	FSE	RF	02	
									LR	RF		Drywell Bypass Test
1DFR*V4	2	AC	8	CK	SA	O	C	C-12	FSE	RF	02	
									LR	RF		Drywell Bypass Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32-9B	609	DER	6/1/94	0001	DRAINS FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1DER*AOV126	2	A	4	GL	AO	O	C	B-9	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1DER*AOV127	2	A	4	GL	AO	O	C	B-8	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1DER*V4	2	AC	3/4	CK	SA	C	O	B-9	FSE	CS	41	
							C		LR	RF		10 CFR 50, APP. J Test
1DER*V16	2	AC	8	CK	SA	O	C	H-2	FSE	RF	02	
									LR	RF		Drywell Bypass Test
1DER*V17	2	AC	8	CK	SA	O	C	H-2	FSE	RF	02	
									LR	RF		Drywell Bypass Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES

APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32-9F	609	DFR	6/1/94	0001	DRAINS FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1DFR*AOV101	2	A	4	GL	AO	O	C	C-8	FSE	O		
							C		FS	O		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1DFR*V180	2	AC	1/2	CK	SA	C	O&C	B-8	FSE	CS	39	
									LR	RF		10 CFR 50, APP. J Test

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32-96	609	DER	6/1/94	0001	DRAINS FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1DER*V14	2	AC	8	CK	SA	O	C	F-19	FSE LR	RF RF	02	Drywell Bypass Test
1DER*V15	2	AC	8	CK	SA	O	C	F-18	FSE LR	RF RF	02	Drywell Bypass Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32 9J	609	DFR	6/1/94	0001	DRAINS FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1DFR*V87	3	C	4	CK	SA	O	C	D-7	FSE	RF	24	Disassembly
1DFR*V88	3	C	4	CK	SA	O	C	D-7	FSE	RF	24	Disassembly
1DFR*V97	3	C	4	CK	SA	O	C	L-2	FSE	RF	24	Disassembly
1DFR*V98	3	C	4	CK	SA	O	C	L-1	FSE	RF	24	Disassembly
1DFR*V107	3	C	4	CK	SA	O	C	L-13	FSE	RF	24	Disassembly
1DFR*V108	3	C	4	CK	SA	O	C	L-12	FSE	RF	24	Disassembly
1E51*AOVF004	2	B	1	GA	AO	O	O&C C	K-9	FSE FS PI	O O RF		
1E51*AOVF005	2	B	1	GA	AO	O	O&C C	K-9	FSE FS PI	O O RF		
1E51*VF047	2	C	12	CK	SA	O	O	L-9	FSE	O		Normal Ops

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INSERVICE TEST PLAN - VALVES
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P&ID: 32-9K | System #: 609 | System Alpha: DFR | Page Rev. Date: 6/1/94 | ISTCR #: 0001 | System Name: DRAINS FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1DFR*AOV102	2	A	4	GL	AO	O	C	F-8	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1DFR*V117	3	C	4	CK	SA	O	C	K-2	FSE	RF	24	Disassembly
1DFR*V118	3	C	4	CK	SA	O	C	K-1	FSE	RF	24	Disassembly
1DFR*V127	3	C	4	CK	SA	O	C	G-13	FSE	RF	24	Disassembly
1DFR*V128	3	C	4	CK	SA	O	C	G-12	FSE	RF	24	Disassembly
1DFR*V78	3	C	4	CK	SA	O	C	C-6	FSE	RF	24	Disassembly
1DFR*V79	3	C	4	CK	SA	O	C	C-6	FSE	RF	24	Disassembly

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32 9P	609	DFR	6/1/94	0001	DRAINS FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1DFR*AOV144	2	B	3	GL	AO	O	C C	M-3	FSE FS PI	Q Q RF		
1DFR*AOV145	2	B	3	GL	AO	O	C C	D-12	FSE FS PI	Q Q RF		
1DFR*MOV146	2	A	4	GA	MO	O	O&C	D-11	FSE PI LR	Q RF RF		Water Test
1DFR*V181	2	AC	4	CK	SA	C	O&C	C-10	FSE LR	Q RF		Water Test
1DFR*V182	2	AC	4	CK	SA	C	O&C	C-12	FSE LR	Q RF		Water Test

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INSERVICE TEST PLAN - VALVES
APPENDIX C

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
21-28	610	SSR	6/1/94	0001	SAMPLING REACTOR PLANT

VALVE INFORMATION										TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.		Type	Freq.	Relief	
1SSR*SOV130	2	A	1/2	GL	SO	C	C C	L-18		FSE FS PI LR	Q Q RF RF		10 CFR 50, APP. J Test
1SSR*SOV131	2	A	1/2	GL	SO	C	C C	L-17		FSE FS PI LR	Q Q RF RF		10 CFR 50, APP. J Test
1SSR*SOV133	2	B	3/4	GL	SO	C	C C	N-18		FSE FS PI	Q Q RF		
1SSR*SOV134	2	B	3/4	GL	SO	C	C C	N-17		FSE FS PI	Q Q RF		
1SSR*SOV139	2	A	1	GL	SO	C	C C	G-16		FSE FS PI LR	Q Q RF RF		10 CFR 50, APP. J Test
1SSR*SOV140	2	B	1	GL	SO	C	C C	F-16		FSE FS PI	Q Q RF		
1SSR*V705	2	C	1	CK	SA	C	O	G-17		FSE	RF	24	

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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
2128	610	SSR	6/1/94	0001	SAMPLING REACTOR PLANT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1SSR*V706	2	C	1	CK	SA	C	O	F-16	FSE	RF		

1.0 INTRODUCTION

This document represents the First Ten Year Interval for Inservice Testing (IST) of Pumps and Valves at the River Bend Nuclear Station Unit 1.

The program was developed in compliance with the requirements of 10CFR50.55a (g), Technical Specification 4.0.5, and in accordance with the rules of the ASME Boiler and pressure Vessel Code, Section XI, 1980 Edition through Winter 1981 Addenda.

The River Bend Station Pump and Valve Program has been reviewed by the NRC in the receipt of our Safety Evaluation Report (SER), dated 1-2-91 and 7-16-92, which approved Requests for Relief from certain ASME Section XI Testing which cannot be met.

The Program Plan specifies Section XI testing requirements for certain pumps and valves providing a safety-related function. By definition, a safety-related function is one that is required to assure:

A. integrity of the reactor coolant pressure boundary;
B. capability to achieve and maintain safe shutdown;
C. capability to prevent or mitigate the consequences of postulated accidents which could result in off-site exposure comparable to the 10CFR50 Part 100 requirements.

The selection criteria used for components included in this Program Plan are safety-related active components. Only those safety-related passive valves which have leakage values and position indication requirements have been included in the Program Plan. There are certain components that are included in this program which are specific commitments and are not necessarily IST. Station Technical Specifications, Manufacturer's recommendations, and system operating conditions may include additional components or reference valves which should be included in the overall IST testing program.

Section XI requires that an Inservice test shall be run on each pump and valve every 3 months (quarterly) during normal plant operation. If this testing is not practical during plant operation, it shall be tested during Cold Shutdowns (see Cold Shutdown Justifications for each system/component). In cases which functional testing of pumps and valves cannot be performed in either quarterly or Cold Shutdowns because it is determined impractical for the following reasons, a Request for Relief shall be generated.

A. renders a safety-related system inoperable;
B. causes a reactor scram or turbine trip;
C. requires significant deviations from normal operations;
D. requires entries into the drywell and inaccessible areas during power operation;
E. increases the probability of an accident or inner system LOCA.

NOTE: Requests for Relief must be approved by the NRC staff and its contractor prior to implementation.

For each component for which testing cannot be performed or which is excluded from quarterly testing or testing performed at Cold Shutdowns has been analyzed and documented in a Cold Shutdown Justification or a Request for Relief. ASME Section XI allows valve testing at Cold Shutdowns; this IST Program lists these in Appendix D along with the Requests for Relief. This section provides a justification for the delay of testing until cold shutdown in the same format as the Requests for Relief.

In addition to Cold shutdown Justifications and Requests for Relief, there are general "IST Positions" established at River Bend Station which address specific testing policies. These positions are the result of: 1) responses to the NRC, 2) NRC Generic Letter #89-04 Positions, and 3) general RBS operating procedures. These items will be discussed in the General Information 2.0 and 3.0 of the program.

The IST Pump and Valve Program is broken down into 3 sections with 4 Appendices. Section 1 is the Introduction and Basis portion. Section 2, Inservice Testing of Pumps, discusses the applicable ASME Class 1, 2, and 3 pumps which were selected. Section 3, Inservice Testing of Valves, discusses the applicable ASME Class 1, 2, and 3 valves.

1.1 BASIS

The RBS IST Program uses the River Bend Unit 1 Engineering P&I Diagrams in conjunction with the ASME Section XI Code, RBS USAR, RBS Tech. Spec., NRC Generic Letter #89-04, and ASME/OM-1990 Code ISTB and ISTC.

The basis for inclusion of certain safety-related ASME Class 1, 2, and 3 components was performed in conjunction with ASME Section XI IWA-1000, IWP-1100, IWV-1100, NRC Generic Letter #89-04, Position 11, the River Bend Station USAR, and ANSI/ASME Operations and Maintenance (O&M) Part 6 to prepare the RBS IST Program.

The following basis is for excluding components:

- The components were exempt from testing per IWP-1200 or IWV-1200. This includes Pumps and Valves used for operating convenience (i.e. valves used as manual vents and drains, system control, and maintenance valves); pumps supplied with emergency power solely for operating convenience.

- Components that are safety-related but have no specific function (considered passive) in shutting down a reactor or in mitigating the consequences of an accident.

In addition to the referenced ASME Code Section XI, the RBS IST Program Plan was prepared in compliance with the following NRC guidance documents: Draft document dated 1/1978, "Guidance for Preparing Pump and Valve Testing Programs and Associated Relief Requests Pursuant to 10CFR50.55a (g)"; NRC Letter dated 11/1976, "NRC staff Guidance for Complying with Certain Provisions of 10CFR50.55a (g)"; NRC Generic Letter #89-04 dated April 3, 1989, "Guidance on Developing Acceptable Inservice Testing Programs"; NRC letter dated August 31, 1987, "NRC Staff Interim Review of the RBS Pump and Valve Inservice Testing Program (IST) Revision 3"; NRC letter dated October 9, 1987, "NRC Staff Consultants Preliminary Review of the RBS Pump and Valve IST Program"; NRC letter dated January 6, 1988, "NRC Meeting Minutes of Pump and Valve IST Program Plan"; NRC letter dated January 2, 1991, "Staff Review of the First Ten Year Interval IST Program for Pumps and Valves"; GSU Response Letter dated July 26, 1991, "Response to NRC IST Evaluation "; and NRC Safety Evaluation for Revised Relief Requests dated July 16, 1992. These documents provide the basis for selecting components, testing requirements, and Requests for Relief.

Regarding Containment Isolation (CIV)/Pressure Isolation (PIV) function valves, this program incorporates these into the RBS Pump and Valve IST Program. Per Valve IST Position 3.5.3 to perform leak rate testing in accordance with 10CFR50, Appendix J, the River Bend Leak Rate Testing guidelines and compliance with the requirements of Section XI IWV-3426 and IWV-3427(a) have been incorporated into the IST Program.

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 thru 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, June 16, 1986.

Appendix A identifies the Class 1, 2, and 3 pumps that are tested, along with the applicable parameters that are measured. This listing is arranged by RBS system number, then by P&ID number, and finally by pump number.

2.2 PLAN INFORMATION

The following information is provided in the computer generated Pump Inservice Plan (Appendix A):

2.2.1 'SYSTEM NAME': The name of the system which the pump is a part of.

2.2.2 'SYS NO': The RBS number of the system which corresponds with the System Name.

2.2.3 'P&ID NO': The Process and Instrument Diagram number on which the listed pumps are shown.

2.2.4 'PUMP INFOkMATION':

1. 'MARK NUMBER': This is the pump identification number.

2. 'DESIGN AND DESCRIPTION': Listed are important design characteristics and general descriptive information for the pump. (Changes in this information will not by itself initiate a revision to the IST Plan. It is for information only.)

3. 'NORMAL STATUS':

STBY - Standby
RUN'NG - Running

2.2.5 'TEST INFO': Information relating to the ASME tests required for the pump.

1. 'FREQUENCY': Surveillance test frequency.

   Q- Quarterly (every 92 days) (Note - the test frequency will be increased to once every 46 days if any pump test parameter value is found in its alert range.)

   CS- During Cold Shutdown but not less than every 92 days. (Testing shall commence within 48 hours of achieving Cold Shutdown and shall continue until testing is complete, but shall not prevent plant startup. Completion of Cold Shutdown testing is not a prerequisite for returning to commercial generation of power. Tests not completed prior to startup will be rescheduled for the next Cold Shutdown starting with the last 92 days, if acceptable. If the test results are in the Alert Range, the pump shall be repaired or an Engineering Justification initiated for continued limited operation until the next outage.

2. 'PARAMETER': The test parameter which is measured or observed during the pump test.

PI-I-	Idle Pump inlet pressure
PI-R-	Running Pump inlet pressure
PI-	Pump calculated inlet pressure
PO-	Pump outlet pressure
DP-	Pump differential pressure
Q-	Pump developed flow
V-	Pump bearing housing vibration
BRG-	Pump bearing temperature
LUB-	Pump bearing lubrication
SPD-	Pump shaft speed in RPMs
STM-	Steam supply pressure for turbine driven pumps

   NOTE: Because deepwell pumps are lubricated by the pumped medium, lube level will not be checked for these pumps.

3. 'RELIEF REQUEST': The request for relief numbers which correspond to the associated ASME test parameter. (See Appendix B.) The relief request numbering sequence is used for Cold Shutdown Justifications.

2.2.f 'TEST PARAMETER LIMITS':

1. 'ACCEPTABLE RANGE': The acceptable range of the associated test parameter as specified by the ASME Code, Section XI, Subsection IWP and as modified by the relief requests.

   LVL- Lubrication Level
   P- Pressure in psig
   V- Vibration in inches per second velocity
   N/A- Not Applicable

   NOTE: R is used to refer to the test reference value or "baseline" value.

2. 'ALERT RANGE': The range of the associated test parameter which increases the surveillance test frequency to less than or equal to every 46 days as specified by the ASME Code.

3. 'UNACCEPTABLE RANGE': The required action range of the associated test parameter which requires the pump to be immediately declared inoperable as specified by the ASME Code.

4. 'TECH SPEC ALLOWABLE': If applicable, this is the Technical Specification allowable range for the associated test parameter. If found unacceptable, then specific action shall be taken in accordance with the specific Tech. Spec. statement.

2.3 REQUESTS FOR RELIEF

Where ASME Section XI requirements are determined to be impractical, a Request for Relief has been submitted with the Plan. A Request for Relief will require NRC approval prior to the incorporation into this Program Plan. Pump Requests for Relief and Cold Shutdown Justifications are provided in Appendix B.

2.4 PUMP IST POSITIONS

2.4.1 Per NRC Generic Letter #89-04, Position #8, and IWP-3230 (b), if deviations fall within the Required Action Range of Table IWP-3100-2 the pump shall be declared inoperative and not returned to service until the cause of deviation has been determined and the condition corrected. River Bend's IST Surveillance Test Program is performed by Operations personnel. If the test value is found to be in the Required Action Range, it would be checked unacceptable by the personnel performing the test. Then the data package would be given to the Shift Supervisor/Control Room Operations Foreman for their review and analysis and then a determination would be made as to whether or not the data meets the requirements on the IST Data Sheet and all appropriate Tech. Spec. actions would be taken as specified. The determination of Required Action and Declaration of Required Action to coincide with Tech. Spec. Action shall be made during that shift period only.

2.4.2 Per IWP-4600, flow rate shall be measured using a rate or quantity mete installed in a pump test circuit. The meter may be in any class that provides an overall readout repeatability within the accuracy limits of Table IWP-4110-1. Where the meter does not indicate the flow rate directly, the record shall include the method used to reduce the data. In the case of certain pumps, the instruments used for flow measurement receive a signal only. In this case, the use of a multimeter (± 2% accuracy) to read millivolts (DC) in lieu of a flow meter or temporarily installed gauge is recommended.

2.4.3 For the Reactor Core Isolation Cooling pump test, to establish a running inlet suction pressure of the RCIC pump, the flow and speed parameters of the RCIC turbine and pump will be adjusted (IWP-3100) prior to obtaining the running suction pressure.

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 thru Winter 1981 Addenda.

The Inservice Testing Plan for valves will remain in effect through the first 10 year inservice inspection interval commencing at commercial operation June 16, 1986.

Appendix C identifies the Class 1, 2, and 3 valves that are tested. This listing is arranged by RBS sstem number, then by P&ID number, and finally by valve number.

3.2 PRESERVICE TESTING

Each valve was tested after installation and prior to service. These tests were 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 were not necessarily installed prior to their preservice test.

3.3 PLAN INFORMATION

The following information is provided in the computer generated Valve Inservice Testing Plan (Appendix C):

3.3.1 'SYSTEM NAME': The name of the system which the valve is a part of.

3.3.2 'SYS NO': The RBS number of the system which corresponds with the System Name.

3.3.3 'P&ID NO': The Process and Instrument Diagram number on which the listed valves are shown.

3.3.4 'VALVE INFORMATION':

1. 'MARK NUMBER': This is the valve identification number. (A few dampers are listed which are required to be tested pursuant to the ASME Code Section XI, Subsection IWV by Tech. Spec. 4.6.5.3.C even though they do not fall within the scope of IWV itself.)

2. 'P&ID CORD.': The coordinates on the associated P&ID where the valve will be located.

3. 'CLASS': The ASME Code Class of the valve.

4. 'TYPE': The valve type or design.

BF-	Butterfly	PG-	Plug
CK-	Check	RV-	Relief
DP-	Damper	SC-	Stop Check
GA-	Gate	XP-	Explosive
GL-	Globe		

5. 'CATEGORY': The Valve Category as defined by ASME Code, Section XI, Subsection IWV-2200.

NOTE: When more than one category is applicable, the categories will be combined (e.g. AC). If the valve is not required to change position to accomplish a specific function it will be categorized "P" (for passive). With the exception of Cat. A passive valves, all valves in the program are assumed to be active.

6. 'SIZE-INCHES': The nominal diameter of the valve in inches. For valves with the outlet size different from the inlet, the inlet size is shown first. For dampers, it is the width by height in inches.

7. 'ACTUATOR': The type of actuator used to change the valve position.

AC-	Air operator	SA-	Self actuated
HY-	Hydraulic operator	SO-	Solenoid operator
MA-	Manual operator	XP-	Explosive charge
MO-	Motor operator		

8. 'NORMAL POSITION': Valve positions during normal plant operation.

C-	Closed	LC-	Locked closed
O-	Open	LO-	Locked open
T-	Throttled	O/C-	Open or Closed

9. 'SAFETY POSITION': This is the position to which the valve must move to meet a safety function and the corresponding test which verifies it. For a fail safe test (FS), the position to which the valve will move upon a loss of power is shown.

C- Closed
O- Open
O&C- Open and Closed
A-I- As Is

3.3.5 'TEST INFO': Information relating to the ASME tests required for the valve.

ET- Explosive charge test
FS- Fail safe test
FSE- Full stroke exercise
NOTE: For some check valves, FSE may exercise only the safety position.
LR- Leak rate test
PI- Local position indication verification
PSE- Partial stroke exercise
SP- Setpoing verification

2. 'FREQ': Surveillance test frequency.

Q- Quarterly (every 92 days). See 2.2.5.1 for definition.

CS- During Cold Shutdown but not less than every 92 days. (Testing shall commence within 48 hours after achieving Cold Shutdown, but shall not prevent plant startup. Completion of Cold Shutdown testing is not a prerequisite for returning to commercial generation of power. Tests not completed prior to startup will be rescheduled for the next Cold Shutdown starting with the last test performed). Cold Shutdown testing is not required if testing is performed in the last 92 days, if acceptable. If the test results are in the Alert Range, the valve shall be repaired or Engineering Justification initiated for continued limited operation until next outage.

RF- Testing deferred to the refueling outage or 2 years, whichever occurs first, shall be completed prior to returning to power operation.

NOTE:

RF-1: 1ST refueling outage (4th, 7th, 10th, etc.)
RF-2: 2nd refueling outage (5th, 8th, 11th, etc.)
RF-3: 3rd refueling outage (6th, 9th, 12th, etc.)

NOTE: At least 1/3 of the total relief valves will be tested each refueling outage, such that 100% of all relief valves will be tested by the end of the five year interval required by IWV-3511.

V- Test occurs at varying frequencies but shall never exceed 2 years.

3. 'RELIEF REQUEST': The request for relief numbers which correspond to the associated ASME test requirement. (See Appendix D.) The relief request numbering sequence is used for Cold Shutdown Justifications.

3.3.6 'REMARKS' Provides information or clarification of tests or test requirements as needed:

SRV AIR LEAK TEST indicates the associated valve is leak tested as part of the air leakage test on the main steam line safety-relief valve actuator air system.

DISASSEMBLY indicates the associated check valve is disassembled for inspection and exercising in accordance with STP-000-3607 and CMP-9173 as explained in Relief Request #24.

PENT LOCKED CLOSED indicates that the containment penetration associated with the valve is locked closed by another valve and therefore testing is not required on the valve.

RCS BOUNDARY TEST indicates the valve is leak valve. The testing is required by Tech. spec. 4.4.3.2.2.

NORMAL OPS indicates that the operability of the valve is verified by the normal operation of the associated system.

DAMPER, TS 4.6.5.3 indicates the component is a damper that is tested per the ASME Code, Section XI, Subsection IWV as required by Tech. Spec. 4.6.5.3.

10CFR50 APP J TEST indicates the leak test on the valve is performed in accordance with 10CFR50 Appendix J, Relief Request #59 and Valve IST Position 3.5.3.

SCRAM TEST indicates the valve is tested for operability by the successful performance of the individual control rod drive scram time test as explained by Relief Request #33.

SPECIAL LEAK TEST indicates the valve has a leak test which is not containment related but is required to ensure system or valve operability.

DRYWELL BYP. TEST indicates the valve leak test is satisfied by the integrated drywell steam bypass leak test and by the valve stroke tests as explained by Relief Request #2.

PVLCS VALVE TEST indicates the valve is tested locally for leakage as part of the Penetration Valve Leakage Control System. The leakage value obtained will be added with total PVLCS division leakage.

PVLCS DIV. TEST indicates the valve leakage rate is combined with other valve leakage rates in the same division to obtain the divisional leakage rate.

TESTABLE CK VALVE indicates the associated valve is an air operated testable check valve which can be remotely exercised.

NOTE: MR 87-0780 removed the air actuator arm from several of the ECCS injection check valves in the drywell.

3.4 REQUESTS FOR RELIEF

Where ASME Section XI requirements are determined to be impractical, a Request for Relief has been submitted with the Plan. A Request for Relief will require NRC approval prior to the incorporation into this Program Plan. Valve Requests for Relief and Cold Shutdown Justifications are provided in Appendix D.

3.5 VALVE IST POSITIONS

3.5.1 NRC Generic Letter #89-04, Position #5, "Limiting Values of Full-Stroke Times for Power Operated Valves" and RBS Policy states the Code intent with respect to measuring the full-stroke times of power operated valves is to verify operability and to detect valve degradation. The purpose of this value is to establish taking corrective action on a degraded valve before the valve reaches failure. The NRC has, therefore, established the guidelines regarding the limiting values of full-stroke time for power operated valves.

Reference values for power operated valve stroke times will be established when the valves are known to be operating acceptably. The acceptable range will be plus 25% of the reference value for valves with stroke times greater than 10 seconds and plus 50% of the reference value for valves with stroke times less than or equal to 10 seconds. If the stroke time exceeds this range but is below the maximum allowable stroke time, test frequency shall be increased to once each month (31 days) until corrective action is taken.
NOTE: Stroke times greater than the maximum allowable stroke time will require the valve to be immediately declared inoperable.

When the TS or safety analysis limit for a valve is less than the value established using the above guidelines, the TS or safety limit shall be used as the limiting value of full-stroke time.

3.5.2 NRC Generic Letter 89-04 Position 6 & RIS Policy Stroke Time Measurements for Rapid-Acting Valves

The Code requires the following for power operated valves with stroke times 10 seconds or less: (a) limiting values of full-stroke times shall be specified [IWV-3413 (a)], (b) Valve stroke times shall be measured to (at least) the nearest second [IWV-3413 (b)], and (c) If the stroke time increases by 50% or more from the previous test, then the test frequency shall be increased to once each month until corrective action is taken [IWV-3417(a)]. Paragraph IWV-3417(b) specifies corrective actions that must be taken.

With reference to (c) above, measuring changes in stroke times from a reference value as opposed to measuring changes from the previous test is an acceptable (and possibly better) alternative. However, since this is different from the Code requirement, this deviation is documented in the IST Program as an IST Position.

Most plants have many power operated valves that are capable of stroking in 2 seconds or less. In these cases, it is difficult to apply the Code criteria for 50% increase of stroke time corrective action requirements. The purpose of that requirement is to detect and evaluate the degradation, but much of the deviation comes from the operator reaction time or timing deviation comes from the operator reaction time or timing device gathering the data from test to test. In addition, the problem is compounded if the data is "rounded off" as allowed by the Code. Thus, these results are not beneficial or representative of the actual valve performance.

Power operated valves (Solenoid Operated Valves) with normal stroke times of 2 seconds or less are referred to as "rapid-acting valves." For these valves, the maximum limiting value of full-stroke time is 2 seconds and, upon exceeding this limit, declare the valve inoperable and take corrective action in accordance with IWV-3417(b). Since this is a deviation from the Code requirements, this deviation is documented in the IST Program as an IST Position.

3.5.3 NRC Generic Letter #89-04. Position #10 "Containment Isolation Valve Testing" states that Containment Isolation Valve (CIVs) will be conducted pursuant to Appendix J and included in our IST Program. The limitations of Appendix J shall be met and the NRC has determined that 10CFR50 Appendix J requirements are equivalent to ASME Section XI IWV-3421 through 3426 and comply with IWV-3427(a). The River Bend Leak Rate Program will provide a more limiting and conservative overall leak rate program. Analysis will be used to determine predicted failures and rat of degradation, if any. Results will be used to enhance predictive maintenance and allow River Bend flexibility in order to comply with ALARA concerns and maximum utilization of resources. Guidelines will also be set as to maximum allowable predicted leak rate based on past performances. Corrective action shall be taken whenever tested valve exceeds the maximum allowable leak rate as set forth by the River Bend Leak Rate Program (Reference ANSI/ASME OM Code-1990, Section ISTC 4.3).

VALVE IST POSITION #3.5.3
CONTAINMENT ISOLATION VALVE LISTING

Subject to Appendix J Leak Rate Testing

1B21*VF010A,B
1B21*AOVF032A,B
1CCP*V118
1CCP*V160
1CCP*MOV138
1CCP*MOV158
1CCP*MOV159
1CMS*SOV31A,B,C,D
1CMS*SOV35A,B,C,D
1CNS*V86
1CNS*MOV125
1CPP*MOV104
1CPP*MOV105
1CPP*SOV140
1C11*VF122
1C11*MOVF083
1DER*V4
1DER*AOV126
1DER*AOV127
1DFR*V180
1DFR*AOV101
1DFR*AOV102
1E12*VF044A,B
1E12*VF099A,B
1E12*AOVF041C
1E12*MOVF008
1E12*MOVF009
1E12*MOVF023
1E12*MOVF027A,B
1E12*MOVF037A,B
1E12*MOVF042A,B,C
1E12*MOVF053A,B
1E21*AOVF006
1E21*MOVF005
1E22*AOVF005
1E22*MOVF004
1E22*AOVF065
1E22*AOVF066
1E51*MOVF013
1E51*MOVF063
1E51*MOVF064
1E51*MOVF068
1E51*MOVF076
1E51*MOVF077
1E51*MOVF078
1FPW*V263
1FPW*MOV121
1G33*MOVF001
1G33*MOVF004
1G33*MVOF028
1G33*MOVF034
1G33*MOVF039
1G33*MOVF040
1G33*MOVF053
1G33*MOVF054
1HVN*V541
1HVN*V1316
1HVN*MOV102
1HVN*MOV127
1HVN*MOV128
1HVR*AOV165
1HVR*AOV123
1HVR*AOV128
1HVR*AOV166
1IAS*V80
1IAS*MOV106
1LMS*V12
1LMS*V14
1LMS*V16
1LMS*V7
1RHS*V240
1SAS*V486
1SAS*MOV102
1SFC*V101
1SFC*V350
1SFC*V351
1SFC*MOV119
1SFC*MOV120
1SFC*MOV121
1SFC*MOV122
1SFC*MOV139
1SSR*SOV130
1SSR*SOV131
1SVV*V9
1SVV*V31
1SVV*MOV1A,B
1SWP*V174
1SWP*V175
1SWP*MOV5A,B
1SWP*MOV81A,B
1SWP*MOV503A,B
1SWP*MOV507A,B
1SWP*SOV522A,B,C,D
1WCS*RV144
1WCS*RV154
1WCS*MOV172
1WCS*MOV178

IST CHANGE REQUEST FORM

ISTCR #: 0002			
Date: June 6, 1994	**Requester:** G. C. Hockman	**Department:** Systems Engineering - IST	**Phone:** X 4452
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** N/A	
Affected Pages: Pump Relief Request No. 4	**STP:** N/A	**Relief Requests:** PRR-4	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Delete Pump Relief Request No.4

Justification for the Requested Change:

NRC SER dated Oct. 22, 1993 (ref. RBC44648) section 3.1.4, the NRC recommends that Pump Relief Request No.4 as written, be deleted The gauge issue will be addressed by ASME Operation and Maintenance Code-1990.

Reviewed: [signature] 3027 6/6/94 6/6/94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] /025/ 6/6/94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

PUMP REQUEST FOR RELIEF NO. 4 (CONT.)

"DELETED"

Reference NRC SER dated October 22, 1993 (RBC-44648), section 3.1.4.

IST CHANGE REQUEST FORM

ISTCR #: 0003			
Date: June 6, 1994	**Requester:** C. W. Walling	**Department:** Systems Engineering - IST	**Phone:** X 4842
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1E12*MOVF024A, 1E12*MOVF024B, 1RHS*V64, 1RHS*V65 1RHS*V34	
Affected Pages: Appendix C, Pages 43, 45, 47, 50 & 52	**STP:** STP-204-6302	**Relief Requests:** N/A	**CR's, MR's, MWO's:** MR 93-0047

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

1E12*MOVF024A, 1E12*MOVF024B - Gate valves were replaced by a new type of Butterfly valve - change **TYPE** (Appendix C, pages 43 & 47) from GA to BF.
1RHS*V34, 1RHS*V64, 1RHS*V65 - the internals were removed from these valves and they should be removed from IST testing, since they no longer perform a safety function - indicate under **REMARKS** (Appendix C, pages 45, 50 & 52), Valve Internals Removed-Not Tested

Justification for the Requested Change:

The described change has been implemented by the completion of MR 93-0047. The IST Program needs to be revised to reflect this activity.

Reviewed: James R Pike 5027 6/6/94 ECH
(IST Engineer / Coordinator / KCN / Date)

Approved: Jay Fadkin 0254 6/6/94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

IST CHANGE REQUEST FORM

ISTCR #: 0004			
Date: June 6, 1994	**Requester:** G. C. Hockman	**Department:** Systems Engineering - IST	**Phone:** X 4452
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1LSV*V114, 1LSV*V120, 1E12*VF085A, B, C & 1DFR*V118	
Affected Pages: Valve Relief Request No. 24	**STP:** STP-000-3607	**Relief Requests:** VRR-24	**CR's, MR's, MWO's:** CR 94-0361, MR 89-105

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Revise Valve Relief Request No. 24 as follows (see attached markup):

Change 1E12*VF085A, B, C **TYPE** from 1 to 5, and **GROUP** from 3 to 10. Change 1LSV*V114 and 1LSV*V120 **TYPE** from 1 to 6, and **GROUP** from 4 to 11. Add the description under **TYPE**: 5 - VKS060-A *31* Globe Stop Check valve 600lb SW A105 GR II CS body stellited trim bolted bonnet piston type integral seat. Add the description under **TYPE**: 6 - VCS060-R *41* Check valve 600lb SW A182 F316 Type 316 SS Body stellited bolted cap piston type renewable seat. Increase the **Inspection Schedule** for 1 DFR*V118 to include RF-6 & 7. Adjust the **Inspection Schedule** to ensure groups 3, 10 & 11 are scheduled for each refuel outage.

Justification for the Requested Change:

NRC SER dated October 22, 1993, Section 3.2.3, para. 4 (ref. RBC-44648) states that, " The licensee should ensure that all valve groupings in this relief request conform to the guidance provided in GL 89-04, Position 2...". GL 89-04, Position 2 states "The sampling technique requires that each valve in the group be the same design (manufacturer, size, model number, and materials of construction) and have the same service conditions including valve orientation". Based on the review conducted and the disposition of CR 94-0361 the affected components were improperly grouped. The above stated changes to Valve Relief Request No. 24 make it consistent with NRC GL 89-04. The increase in the inspection schedule for 1 DFR*V118 is due to recommendations made during a prior inspection.

Reviewed:	**Approved:**
6/7/94 (IST Engineer / Coordinator / KCN / Date)	6-7-94 (SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

VALVE REQUEST FOR RELIEF NO. 24 (CONT.)

TYPE		
1 - VCS060-A	*13*	Check valve 600 lb SW SA 105 GR II CS body stellited trim bolted cap piston type integral seat
2 - VCW015-E	*33*	Check valve spring loaded 150 lb BW SA105 CS body stellited trim bolted cap piston type renewable seat
3 - VCW015-D	*33*	Check valve 150 lb BW A105 GR II CS body stellited trim bolted cap swing type renewable seat
4 - VCS150E	*31*	Check valve spring loaded 1500 lb SW SAí05 GR II CS body stellited trim welded cap piston type integral seat
5 - VKS060-A	*31*	Globe stop check valve 600 lb SWA105 GR II CS body stellited trim bolted bonnet piston type integral seat
6 - VCS060-R	*41*	Check valve 600 lb SW A182 F316 Type 316 SS body stellited trim bolted cap piston type renewable seat

Note 1: For these check valves between line-fill pumps and the process lines only one of the pairs of valves (i.e. VF084A and VF085A) is required to be disassembled, inspected and exercised. However, if the valve tested fails, then both of the valves in the pair need to be disassembled, tested and reworked if necessary.

VALVE REQUEST FOR RELIEF NO. 24 (CONT.)

VALVE LIST

VALVE	TYPE	SIZE	GROUP	INSPECTION SCHEDULE
1CCP*V337	1	2"	1	RF-6,8
1CCP*V338	1	2"	1	RF-5,7
1DFR*V78	2	4"	2	RF-5,8
1DFR*V79	2	4"	2	RF-6
1DFR*V87	2	4"	2	RF-7
1DFR*V88	2	4"	2	RF-5,8
1DFR*V97	2	4"	2	RF-6
1DFR*V98	2	4"	2	RF-7
1DFR*V107	2	4"	2	RF-5,8
1DFR*V108	2	4"	2	RF-6
1DFR*V117	2	4"	2	RF-7
1DFR*V118	2	4"	2	RF-5,8,6,7
1DFR*V127	2	4"	2	RF-6
1DFR*V128	2	4"	2	RF-7
1E12*VF084A (Note 1)	1	1.5"	3	RF-5,8
1E12*VF084B (Note 1)	1	1.5"	3	RF-6
1E12*VF084C (Note 1)	1	1.5"	3	RF-7
1E12*VF085A (Note 1)	5	1.5"	10	RF-6
1E12*VF085B (Note 1)	5	1.5"	10	RF-7
1E12*VF085C (Note 1)	5	1.5"	10	RF-5,8
1E51*VF030	3	6"	6	RF-5,6,7,8
1HVK*V48	1	2"	1	RF-7
1HVK*V97	1	2"	1	RF-5,8
1LSV*V12	1	1"	4	RF-7
1LSV*V35	1	1"	4	RF-5,8
1LSV*V36	4	1"	9	RF-6,8
1LSV*V42	1	1"	4	RF-6
1LSV*V46	1	1"	4	RF-5,8
1LSV*V72	4	1"	9	RF-6,8
1LSV*V76	4	1"	9	RF-5,7
1LSV*V90	4	1"	9	RF-5,7
1LSV*V114	6	1"	11	RF-6
1LSV*V120	6	1"	11	RF-7
1SVV*V122	1	1.5"	5	RF-5,6,7
1SVV*V123	1	1.5"	5	RF-5,6,7
1SVV*V129	1	1.5"	5	RF-5,6,7
1SVV*V130	1	1.5"	5	RF-5,6,7
1SSR*V705	1	1.5"	7	RF-5,6,7,8

IST CHANGE REQUEST FORM

ISTCR #: 0005			
Date: 6/6/94	**Requester:** James K. Roberts	**Department:** Engineering Mech/BOP	**Phone:** X 4554
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1SVV*SOV20A, 20B, 21A, 21B,22A, & 22B	
Affected Pages:: IST Plan, App. C, Pages 17 & 18	**STP-** STP 202-6604	**Relief Requests:** N/A	**CR's, MR's, MWO's:** MR 91-0001; FCN #9

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Delete the listed components from the IST Plan, Appendix C (valves).

Justification for the Requested Change:

The listed valves have been removed from the ASME program by MR 91-0001 (specifically FCN #9)

Reviewed: B. C. Hockman
(IST Engineer / Coordinator / KCN / Date)

Approved: Jerry Fredrickson 6/23/94
(ISE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

TO: Controlled Copy Holders of IST Pump and Valve Program manual.

Please insert the attached changes into your manuals as follows:

1. Add the divider labeled "ISTCRs" to the back of the Manual (Controlled Copy Holders No's. 20 & 21 ignore this step dividers are in place).

2. ISTCR #0006 - In Appendix C, remove and replace page 25 of 105; In Appendix D, remove and replace Cold Shutdown Justification Request No. 63; place ISTCR #0006 in the back of the manual.

3. ISTCR #0007 -In Appendix C, remove and replace page 59 of 105; In Appendix D, insert Cold Shutdown Justification Request No's. 66 & 67; place ISTCR #0007 in the back of the manual.

4. ISTCR #0008 - In Appendix C, remove and replace pages 23 & 27 of 105; In Appendix D, insert Cold Shutdown Justification Request No's. 68 & 69; place ISTCR #0008 in the back of the manual.

5. ISTCR #0009 - In Appendix B, remove and replace Pump Relief Request No.14.; place ISTCR #0009 in the back of the manual.

6. ISTCR #0010 - In Appendix C, remove and replace page 2 of 105; place ISTCR #0010 in the back of the manual.

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RIVER BEND STATION CONTROLLED
ACCOUNTABLE & RETURNABLE

IST CHANGE REQUEST FORM

ISTCR #: 0006			
Date: June 8, 1994	**Requester:** G. C. Hockman	**Department:** Systems Engineering - IST	**Phone:** X 4452
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1SWP*MOV57A & 1SWP*MOV57B	
Affected Pages: Appendix C , page 25 (ISTCR # 0001- 6/1/94)	**STP:** STP-256-3301 & STP-256-3302	**Relief Requests:** Cold Shutdown Justification No. 63	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Change Appendix C, page 25, valves 1SWP*MOV57A & B, **TEST INFORMATION (Freq.)** from RF to CS.

Justification for the Requested Change:

Frequency is during Cold Shutdown in accordance with Cold Shutdown Justification No. 63, and also as identified in STP- 256-3301 & 256-3302.

Reviewed: G. C. Hockman /0945/ 7-26-94
(IST Engineer / Coordinator / KCN / Date)

Approved: Tony Jordan /0296/ 7-26-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-10B	118	SWP	7/26/94	0006	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1SWP*MOV27A	3	B	6	BF	MO	O	O&C	M-19	FSE PI	Q RF		
1SWP*MOV27B	3	B	6	BF	MO	C	O&C	J-20	FSE PI	Q RF		
1SWP*MOV27C	3	B	6	BF	MO	O	O&C	L-19	FSE PI	Q RF		
1SWP*MOV27D	3	B	6	BF	MO	C	O&C	H-20	FSE PI	Q RF		
1SWP*MOV506A	3	B	8	BF	MO	O	O&C	N-5	FSE PI	Q RF		
1SWP*MOV506B	3	B	8	BF	MO	O	O&C	N-2	FSE PI	Q RF		
1SWP*MOV57A	3	B	30	BF	MO	O	C	A-16	FSE PI	CS RF	63	
1SWP*MOV57B	3	B	30	BF	MO	O	C	C-15	FSE PI	CS RF	63	
1SWP*MOV77A	3	B	8	BF	MO	O	O&C	P-7	FSE PI	Q RF		

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 63

COMPONENT:	FUNCTION	CLASS	CATEGORY
1SWP*MOVF057A 1SWP*MOVF057B	Standby Service Water supply header isolation with Normal Service Water	2	C

TEST REQUIREMENT: Per IWV-3411 and IWV-3521, Category B valves shall be exercised at least once every three months.

BASIS FOR RELIEF: Stroke timing and exercise testing of these valves during cold shutdown would require a RHR loop to be inoperable which would result in a Technical Specification Limiting condition for Operation, and would disrupt Normal Service Water to operating equipment.

ALTERNATE TESTING: Full-stroke exercise and time valves at cold shutdown when service water loads are minimal and at every refueling outage.

IST CHANGE REQUEST FORM

ISTCR #: 0007			SDC
Date: June 30, 1994	**Requester:** Jr. Victory	**Department:** Systems Engineering - IST	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1E51*VF030; 1E51*VF040; 1E51*VF079 & 1E51*VF081; 1E51*VF061	
Affected Pages: Appendix C, page 59 of 105	**STP:** N/A	**Relief Requests:** VRR-24; VRR-66; VRR-67	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

In appendix C (1E51*VF030), add VRR-**24** to the **Relief** column to justify the **RF** frequency. In appendix C (1E51*VF040), delete **C** from the **Safety (Position)** column, **FSE** from the **Type** column and **CS** from the **Freq.** column. Add Valve Relief Request No. 66 & 67 to appendix C & D to provide justification for testing the valves at cold shutdown instead of quarterly in the River Bend Station Pump and Valve Inservice Testing program (1E51*VF079 & 1E51*VF081; 1E51*VF061)

Justification for the Requested Change:

To identify the applicable relief request number in appendix C for 1E51*VF030. The appropriate safety position for 1E51*VF040 is "Open". 1E51*VF061, 1E51*VF079 & 1E51*VF081 are actually tested on a cold shutdown frequency without proper justification documented in the IST program.

Reviewed: G. C. Hackman 0945 7/26/94
(IST Engineer / Coordinator / KCN / Date)

Approved: Jerry Fadelin/at 90/ 7-26-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-6A	209	ICS	7/26/94	0007	REACTOR CORE ISOLATION COOLING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E51*MOVF077	2	A	1.5	GL	MO	O	O&C	G-11	FSE PI LR	Q RF RF		 10 CFR 50, APP. J Test
1E51*MOVF078	2	A	2.5	GL	MO	O	O&C	G-13	FSE PI LR	Q RF RF		 10 CFR 50, APP. J Test
1E51*RVF018	2	C	1.5	RV	SA	C	O&C	P-2	SP	RF2		125 psig
1E51*VF011	2	C	6	CK	SA	C	O&C	B-9	FSE	Q		
1E51*VF030	2	C	6	CK	SA	C	O&C	A-11	FSE	RF	24	
1E51*VF040	2	C	12	CK	SA	C	O	F-10	FSE	Q		
1E51*VF061	2	C	1.5	CK	SA	O	C O	C-8	FSE FSE	CS Q	67	
1E51*VF079	2	C	1.5	CK	SA	C	O	G-11	FSE	CS	66	
1E51*VF081	2	C	1.5	CK	SA	C	O	G-12	FSE	CS	66	
1ICS*V21	2	C	2	CK	SA	C	O	M-11	FSE	Q		

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 66

COMPONENT:	FUNCTION	CLASS	CATEGORY
1E51*VF079 1E51*VF081	RCIC Steam line exhaust vacuum breaker check valves	2	C

TEST REQUIREMENT: Full-stroke exercise valves to the open and closed positions quarterly.

BASIS FOR JUSTIFICATION: These valves open to relieve a vacuum in the RCIC steam exhaust line to prevent the steam exhaust line from filling with suppression pool water which would eventually trip the RCIC turbine. There is no external/remote means to verify valve position during system operation or an external means to cycle these valves.

These valves have a safety function in the closed position to prevent back flow of RCIC turbine exhaust steam through the vacuum breaker line. Back flow of steam through this line would allow steam to be discharged directly to the suppression chamber atmosphere without quenching. Steam exhaust below the surface of the suppression pool is necessary to limit the increase in suppression pool temperature and pressure. Containment response calculations are based on the assumption that all steam will be condensed in the suppression pool.

Testing these valves encompasses closure of the automatic isolation valves (1E51*F077 and 1E51*F078) in conjunction with opening the test/vent valves located between them. This activity would limit these penetrations with only one containment isolation valve which is a breach of primary containment and during reactor operation would require the applicable unit to be shut down.

ALTERNATE TESTING: Full-stroke exercise valves to the open position and Reverse flow test to the closed during cold shutdown.

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 67

COMPONENT:	FUNCTION	CLASS	CATEGORY
1E51*VF061	RCIC System Keep-fill pump discharge check valve	2	C

TEST REQUIREMENT: Full-stroke exercise valves to the closed position quarterly.

BASIS FOR JUSTIFICATION: This valve opens to ensure the RCIC system is filled to reduce the lag time between pump start-up and attainment of full flow into the reactor vessel and to eliminate the possibility of RCIC pumps discharging into a dry pipe and minimizes water hammer effects during injection into the reactor vessel. Additionally, this valve is to close to prevent diversion of flow during the time the RCIC pump is in operation.

Testing this valve in the closed direction encompasses stopping the keep-fill pump and applying reverse flow to verify valve closure. This activity could cause a void in the RCIC discharge line introducing the possibility of a water hammer in the event of a RCIC initiation.

ALTERNATE TESTING: Reverse flow test the valve during cold shutdown.

IST CHANGE REQUEST FORM

ISTCR #: 0008		SDC	
Date: July 6, 1994	**Requester:** Jr. Victory	**Department:** Systems Engineering - IST	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1 SWP*V201, 1SWP*V202, 1CCP*MOV129, 1CCP*MOV130, 1CCP*MOV16A, 1CCP*MOV16B, 1CCP*MOV335 & 1CCP*MOV336	
Affected Pages: Appendix C, page 23 & 27 of 105	**STP:** N/A	**Relief Requests:** VRR-68 & VRR-69	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Add Valve Relief Request No. 68 & 69 to appendix D to provide justification for testing the valves at cold shutdown instead of quaretrly in the River Bend Station Pump and Valve Inservice Testing program.

Justification for the Requested Change:

The valves are actually tested on a cold shutdown frequency without proper justification documented in the IST program.

Reviewed: [signature] 0945 7/26/94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] 1029 7-26-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program.

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-1B	115	CCP	7/26/94	0008	CLOSED COOLING WATER - REACTOR PLANT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1CCP*MOV129	3	B	12	BF	MO	O	O&C	N-16	FSE PI	CS RF	68	
1CCP*MOV130	3	B	12	BF	MO	O	O&C	J-16	FSE PI	CS RF	68	
1CCP*MOV163	3	B	2	GL	MO	O	C	M-7	FSE PI	CS RF	14	
1CCP*MOV169	3	B	2	GL	MO	O	C	M-7	FSE PI	CS RF	14	
1CCP*MOV16A	3	B	12	BF	MO	O	O&C	J-2	FSE PI	CS RF	68	
1CCP*MOV168	3	B	12	BF	MO	O	O&C	L-8	FSE PI	CS RF	68	
1CCP*MOV335	3	B	12	BF	MO	O	O&C	J-16	FSE PI	CS RF	68	
1CCP*MOV336	3	B	12	BF	MO	O	O&C	N-15	FSE PI	CS RF	68	
1CCP*V72	3	C	12	CK	SA	O	C	L-8	FSE	CS	15	
1CCP*V73	3	C	12	CK	SA	O	C	J-3	FSE	CS	15	
1CCP*V83	3	C	1.5	CK	SA	O	O	L-15	FSE	Q		

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-108	118	SWP	7/26/94	0008	SERVICE WATER NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1SWP*V155	3	C	6	CK	SA	C	C	J-18	FSE	Q		
1SWP*V156	3	C	6	CK	SA	C	C	G-18	FSE	Q		
1SWP*V201	3	C	8	CK	SA	O	O&C	M-6	FSE	CS	69	
1SWP*V202	3	C	8	CK	SA	O	O&C	M-1	FSE	CS	69	
1SWP*V326	3	C	30	CK	SA	O	C	A-16	FSE	RF	58	
1SWP*V327	3	C	30	CK	SA	O	C	C-16	FSE	RF	58	

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 69

COMPONENT:	FUNCTION	CLASS	CATEGORY
1SWP*V201 1SWP*V202	These valves open to allow service wat flow through the Diesel Generator Coolers and close to prevent diversion service water flow through an inactive cooler.	3	C

TEST REQUIREMENT: Full-stroke exercise valves to the open and closed position quarterly.

BASIS FOR JUSTIFICATION: Reverse flow testing these valves quarterly would require isolating service water flow to the applicable Standby Diesel Generator Cooler. The interruption of service water flow to the cooler could cause damage to the diesel in the event of a diesel start.

ALTERNATE TESTING: Reverse flow test to the closed position during cold shutdown.

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 68

COMPONENT:	FUNCTION	CLASS	CATEGORY
1CCP*MOV16A & 1CCP*MOV129 1CCP*MOV130 1CCP*MOV335 1CCP*MOV336	These valves isolate the safety related portion of the system from the non-saf related portion.	3	B

TEST REQUIREMENT: Full-stroke exercise valves and stroke time to the closed position quarterly.

BASIS FOR JUSTIFICATION: These valves are normally open to allow flow of Component Cooling Water to the Fuel Pool Cooler and to provide bearing cooling water to the RHR pumps. Their safety function is to close on Reactor Plant Component Cooling Water (RPCCW) extreme low pressure to protect the safety related portion of the system. Additionally, the closure of these valves allows the Stand-by Service Water system to provide cooling water flow to the safety related portion of the system.

Testing these valves during operation would cause a loss of component cooling water flow to the RHR Motor Bearing Coolers and the Fuel Pool Coolers. The failure of any one of these valves to reopen after stroking would result in a complete loss of cooling to the associated safety related component and/or initiation of the Stand-by Service Water system.

ALTERNATE TESTING: Full-stroke exercise and stroke time valves to the closed position during cold shutdown.

IST CHANGE REQUEST FORM

ISTCR #: 0009			
Date: July 6, 1994	**Requester:** G. C. Hockman	**Department:** Systems Engineering - IST	**Phone:** X 4452
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** N/A	
Affected Pages: Pump Relief Request No. 14	**STP:** N/A	**Relief Requests:** PRR-14	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Delete Pump Relief Request No.14

Justification for the Requested Change:

Delete per NRC SER dated 11/30/93 (reference page 2, para. 3.0).

Reviewed: G. C. Hockman 0905 7/26/94
(IST Engineer / Coordinator / KCN / Date)

Approved: Jim Fedric 0792 8/4/94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

PUMP REQUEST FOR RELIEF NO. 14

Deleted per NRC SER dated 11/30/93 (reference page 2, para. 3.0).

IST CHANGE REQUEST FORM

ISTCR #: 0010			
Date: July 8, 1994	**Requester:** Jr. Victory	**Department:** Systems Engineering - IST	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1C11*V114, 1C11*V138	
Affected Pages: Appendix C, page 2 of 105	**STP:** N/A	**Relief Requests:** VRR-33	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

The Safety Position for valve 1C11*V114 should be O&C instead of O. USAR, paragraph 4.6.1.1.2.4.2.5 indicates that these valves also have a safety function in the closed direction to prevent the pressurized water in the scram discharge volume from interfering with rod movement. Relief Request No. 33 and Generic Letter 89-04 allow the current methodology for forward and reverse flow verification.

The test frequency for valve 1C11*V138 should be V instead of Q and Relief Request No. 33 should be referenced for this code deviation.

Justification for the Requested Change:

1C11*V114 is actually tested both open and closed by using the testing methodology specified in the Technical Specification. The valve table should be changed to indicate verification of both safety functions.

1C11*V138 is actually tested on a frequency as specified in the Technical Specification and allowed by position 7 of Generic Letter 89-04. It is impractical to test this valve quarterly as indicated in the current valve tables. Relief Request No. 33 states that this valve will be tested on the same frequency as the Air Operated Valves as specified by the Technical Specifications.

Reviewed: C. L. Hackman 0945 7/26/94
(IST Engineer / Coordinator / KCN / Date)

Approved: Tony Fredieu 0296 7-26-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
36-1C	052	RDS	7/26/94	10	CRD-HYDRAULIC

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1C11*AOV126	2	B	1	GA	AO	C	O	E-7	FSE FS	V V	33	Scram Test; 145 ea.
1C11*AOV127	2	B	3/4	GA	AO	C	O	F-9	FSE FS	V V	33	Scram Test; 145 ea.
1C11*AOVF010	2	B	1	GL	AO	O	C	H-16	FSE FS PI	Q Q RF		
1C11*AOVF011	2	B	2	GL	AO	O	C	A-17	FSE FS PI	Q Q RF		
1C11*AOVF180	2	B	1	GL	AO	O	C	H-17	FSE FS PI	Q Q RF		
1C11*AOVF181	2	B	2	GL	AO	O	C	A-18	FSE FS PI	Q Q RF		
1C11*V114	2	C	3/4	CK	SA	C	O&C	F-9	FSE	V	33	Scram Test; 145 ea.
1C11*V115	2	C	1/2	CK	SA	C	C	D-7	FSE LR	V RF	33	Scram Test; 145 ea. Special Leak Test
1C11*V138	2	C	1/2	CK	SA	O	C	D-7	FSE	V	33	Scram Test; 145 ea.

TO: Controlled Copy Holders of IST Pump and Valve Program manual

Please insert the attached changes into your manual.

1. ISTCR #0011 - In Section 3, replace page 3-10; Appendix C, remove and replace pages 104 and 105 of 105; In Appendix D, remove and replace Valve Relief Request No. 65; place ISTCR #0011 in the back of the manual.

2. ISTCR #0012- In Appendix D, remove and replace Cold Shutdown Justification No. 34; place ISTCR #0012 in the back of the manual.

3. ISTCR #0013 - In Appendix C, remove and replace pages 9, 10 and 20 of 105; In Appendix D, remove and replace Cold Shutdown Justification No. 39; place ISTCR #0013 in the back of the manual.

4. ISTCR #0014 - In Appendix C, remove and replace page 83 of 105; place ISTCR #0014 in the back of the manual.

NOTE

Pages 85, 86 & 88 of 105 have been incorporated into ISTCR #0015.

5. ISTCR #0015 - In Appendix C, remove and replace pages 4, 5, 21, 29, 31, 36, 38, 61, 73, 84, 85, 86, 88, 97, 98 and 100 of 105; In Appendix D, remove and replace Cold Shutdown Justification No.s 14, 16, 37, 52 & 54 ; place ISTCR #0015 in the back of the manual.

NOTE

Page 3 of 105 has been incorporated into ISTCR #0024.
Page 39 of 105 has been incorporated into ISTCR #0016.
Page 62 of 105 has been incorporated into ISTCR #0018.

6 ISTCR #0016- In Appendix C, remove and replace page 39 of 105; place ISTCR #0016 in the back of the manual.

7. ISTCR #0017- In Appendix C, remove and replace page 64 of 105; place ISTCR #0017 in the back of the manual.

8. ISTCR #0018- In Appendix C, remove and replace page 62 of 105; place ISTCR #0018 in the back of the manual.

9. ISTCR #0019- In Appendix C, remove and replace page 60 of 105; I place ISTCR #0019 in the back of the manual.

10. ISTCR #0020- In Appendix C, remove and replace page 22 of 105; place ISTCR #0020 in the back of the manual.

11. ISTCR #0021- In Appendix C, remove and replace page 55 of 105; place ISTCR #0021 in the back of the manual.

12. ISTCR #0022- In Appendix C, remove and replace page 80 of 105; place ISTCR #0022 in the back of the manual.

13. ISTCR #0023- In Appendix C, remove and replace page 56 of 105; place ISTCR #0023 in the back of the manual.

14. ISTCR #0024 - In Appendix C, remove and replace page 3 of 105; In Appendix D, remove and replace Interim Valve Relief
Request VRR-I-01 and add Cold Shutdown Justification No. 70; place ISTCR #0024 in the back of the manual.

IST CHANGE REQUEST FORM

ISTCR #: 0011			
Date: June 24, 1994	**Requeste: :** G. C. Hockman	**Department:** Systems Engineering - IST	**Phone:** X 4452
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1SSR*V706, 1SSR*SOV133, 1SSR*SOV134, 1SSR*SOV140	
Affected Pages: Section 3, page 3-10; Valve Relief Request No. 65; Appendix C, pages 104 & 105 of 105	**STP Change Req'd:** N/A	**Relief Requests:** VRR-65	**CR's, MR's, MWO's:** CR 92-280

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Delete Valve Relief Request No. 65. Add the affected valve numbers to "VALVE IST POSITION # 3.5.3, CONTAINMENT ISOLATION VALVE LISTING" (page 3-10). Change (pages 104 & 105) the valve CATEGORY for V706 from C to A/C, and SOVs 133,134 &140 from B to A and add the requirement to perform Leak Rate Testing per 10CFR50 Appendix J. Change the FREQ. for valve V706 (page 105) from RF to Q.

Justification for the Requested Change:

Delete VRR-65 per NRC SER dated 10/22/93 (reference pages 8 & 9, para. 4.1.3 & 4.1.4). ASME Section XI, Article IWV-3420 Valve Leak Rate Test states that Category A valves shall be leak rate tested. The River Bend Pump and Valve Inservice Testing Program requires leak rate testing to be performed in accordance with 10CFR50 Appendix J . Since these valves will now require leak rate testing to be performed then they should specify the proper Valve Category and Test Type.

Reviewed: G. C. Hockman 0945 7/27/94 *(IST Engineer / Coordinator / KCN / Date)*	**Approved:** [signature] 0946 8-4-94 *(SE Supervisor / KCN / Date)*

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

VALVE IST POSITION # 3.5.3
CONTAINMENT ISOLATION VALVE LISTING

Subject to Appendix J leak Rate Testing

1B21*VF010A,B
1B21*AOVF032A,B
1CCP*V118
1CCP*V160
1CCP*MOV138
1CCP*MOV158
1CCP*MOV159
1CMS*SOV31A,B,C,D
1CMS*SOV35A,B,C,D
1CNS*V86
1CNS*MOV125
1CPP*MOV104
1CPP*MOV105
1CPP*SOV140
1C11*VF122
1C11*MOVF083
1DER*V4
1DER*AOV126
1DER*AOV127
1DFR*V180
1DFR*AOV101
1DFR*AOV102
1E12*VF044A,B
1E12*VF099A,B
1E12*AOVF041C
1E12*MOVF008
1E12*MOVF009
1E12*MOVF023
1E12*MOVF027A,B
1E12*MOVF037A,B
1E12*MOVF042A,B,C
1E12*MOVF053A,B
1E21*AOVF006
1E21*MOVF005
1E22*AOVF005
1E22*AOVF065
1E22*MOV004
1E51*AOVF066
1E51*MOVF013
1E51*MOVF063
1E51*MOVF064
1E51*MOVF068
1E51*MOVF076
1E51*MOVF077
1E51*MOVF078
1FPW*V263
1FPW*MOV121
1G33*MOVF001
1G33*MOVF004
1G33*MOVF028
1G33*MOVF034
1G33*MOVF039
1G33*MOVF040
1G33*MOVF053
1G33*MOVF054
1HVN*V541
1HVN*V1316
1HVN*MOV102
1HVN*MOV127
1HVN*MOV128
1HVR*AOV123
1HVR*AOV128
1HVR*AOV165
1HVR*AOV166
1IAS*V80
1IAS*MOV106
1LMS*V7
1LMS*V12
1LMS*V14
1LMS*V16
1RHS*V240
1SAS*V486
1SAS*MOV102
1SFC*V101
1SFC*V350
1SFC*V351
1SFC*MOV119
1SFC*MOV120
1SFC*MOV121
1SFC*MOV122
1SFC*MOV139
1SSR*SOV130
1SSR*SOV131
1SSR*V706
1SSR*SOV133
1SSR*SOV134
1SSR*SOV140
1SVV*V9
1SVV*V31
1SVV*MOV1A,B
1SWP*V174
1SWP*V175
1SWP*MOV5A,B
1SWP*MOV81A,B
1SWP*MOV503A,B
1SWP*MOV507A,B
1SWP*SOV522A,B,C,D
1WCS*RV144
1WCS*RV154
1WCS*MOV172
1WCS*MOV178

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
21-2B	610	SSR	8/4/94	0011	SAMPLING REACTOR PLANT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SSR*SOV130	2	A	1/2	GL	SO	C	C	L-18	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1SSR*SOV131	2	A	1/2	GL	SO	C	C	L-17	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1SSR*SOV133	2	A	3/4	GL	SO	C	C	N-18	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1SSR*SOV134	2	A	3/4	GL	SO	C	C	N-17	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1SSR*SOV139	2	A	1	GL	SO	C	C	G-16	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1SSR*SOV140	2	A	1	GL	SO	C	C	F-16	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1SSR*V705	2	C	1	CK	SA	C	O	G-17	FSE	RF	24	

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
21-2B	610	SSR	8/4/94	0011	SAMPLING REACTOR PLANT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1SSR*V706	2	A/C	1	CK	SA	C	O	F-16	FSE LR	Q RF		10CFR50, APPENDIX J TEST

VALVE REQUEST FOR RELIEF NO. 65

Deleted per NRC SER dated 10/22/93 (reference pages 8 & 9, para. 4.1.3 & 4.1.4).

IST CHANGE REQUEST FORM

ISTCR #: 0012			
Date: July15, 1994	**Requester:** Jr. Victory	**Department:** Systems Engineering - IST	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1SVV*V121 & 1SVV*V128	
Affected Pages: Appendix D, CSJ-34	**STP Change Required** N/A	**Relief Requests:** CSJ-34	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Change the category of the valves listed on Cold Shutdown Justification (CSJ-34) from AC to C only.

Justification for the Requested Change:

The valves are actually reverse flow tested closed on a cold shutdown frequency. They do not require leak testing and therefore should be identified as category C not AC.

Reviewed: G. C. Hockman 0945 8/12/94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] 0296 / 8-12-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 34

COMPONENT	FUNCTION	CLASS	CATEGORY
1SVV*V121 1SVV*V128	Reactor Safety - Relief Valve air system supply from PVLCS check	2	C
TEST REQUIREMENT	Per IWV - 3521, check valves shall be exercised at least once every three months.		
BASIS FOR RELIEF	The exercise testing of the valves during normal plant operation will require that the Penetration Valve Leakage Control System be made inoperable and could affect operability of the Safety - Relief Valves (SRVs)		
ALTERNATE TESTING	An exercise test of each valve during cold shutdown if not performed within the previous 92 days as allowed by IWV- 3522		

IST CHANGE REQUEST FORM

ISTCR #: 0013			
Date: July 18, 1994	**Requester:** Jr. Victory	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1B21*VF024A, B, C & D and 1B21*VF029A, B, C & D	
Affected Pages: Appendix C, pages 9, 10, & 20 of 105; Appendix D, CSJ-39	**STP Change Required:** N/A	**Relief Requests:** CSJ-39	**CR's, MR's, MWO's:** CR 94-0983

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Change the category of the listed valves (Appendix C , pages 9, 10, & 20) from AC to C only. Change the safety positions from C to O&C. Change Cold Shutdown Justification (CSJ-39) valve category from AC to C.

Justification for the Requested Change:

The valves are actually tested open and closed on a cold shutdown frequency and the Valve Table (Appendix C should be revised to indicate both safety positions. These valves also have a safety function to close to allow air pressure in the MSIV accumulator to assist in closing if the air header pressure is low. There is not a requirement that these valves be leak tight.

Reviewed: L. C. Hockman 0945 8-18-94 *(IST Engineer / Coordinator / KCN / Date)*	**Approved:** Jim Fredieu 0922 / 8-18-94 *(SE Supervisor / KCN / Date)*

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
3-1A	109	MSS	8/18/94	0013	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1B21*AOVF022A	1	A	24	GL	AO	O	C	D-16	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*AOVF022B	1	A	24	GL	AO	O	C	N-5	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*AOVF022C	1	A	24	GL	AO	O	C	N-16	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*AOVF022D	1	A	24	GL	AO	O	C	E-5	FSE	CS	40	
									PSE	Q		
									FS	CS		
									PI	RF		
									LR	RF		PVLCS Div. Test
1B21*VF024A	3	C	2	CK	SA	C	O&C	F-14	FSE	CS	39	
1B21*VF024B	3	C	2	CK	SA	C	O&C	L-7	FSE	CS	39	
1B21*VF024C	3	C	2	CK	SA	C	O&C	L-15	FSE	CS	39	

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
3-1A	109	MSS	8/18/94	0013	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1B21*VF024D	3	C	2	CK	SA	C	O&C	G-7	FSE	CS	39	

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
3-1C	109	MSS	8/18/94	0013	MAIN STEAM

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1B21*MOVF098B	2	A	24	GA	MO	O	C	M-12	FSE	CS	05	
									PI	RF		
									LR	RF		
									LR	RF		PVLCS Div. Test
1B21*MOVF098C	2	A	24	GA	MO	O	C	G-12	FSE	CS	05	
									PI	RF		
									LR	RF		
									LR	RF		PVLCS Div. Test
1B21*MOVF098D	2	A	24	GA	MO	O	C	L-12	FSE	CS	05	
									PI	RF		
									LR	RF		
									LR	RF		PVLCS Div. Test
1B21*VF029A	3	C	2	CK	SA	C	O&C	K-17	FSE	CS	39	
1B21*VF029B	3	C	2	CK	SA	C	O&C	N-17	FSE	CS	39	
1B21*VF029C	3	C	2	CK	SA	C	O&C	H-17	FSE	CS	39	
1B21*VF029D	3	C	2	CK	SA	C	O&C	L-17	FSE	CS	39	

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 39

COMPONENT:	FUNCTION	CLASS	CATEGORY
1DFR*V180	Drywell floor drain sump containment penetration thermal expansion relief ch	2	AC
1B21 *VF024A, B, C, D	Inboard MSIV accumulator air supply	3	C
1B21 *VF029A, B, C, D	Outboard MSIV accumulator air suppl check	3	C

TEST REQUIREMENT: Per IWV-3421, check valves shall be exercised at least once every three months.

BASIS FOR JUSTIFICATION: One of the presure taps used to verify the position of the valve !DFR*V180 is located in the drywell which is inaccessible during plant operation.

The inboard MSIV accumulator check valves are located in the Drywell and the outboard MSIV accumulator check valves are located in the Main Steam Tunnel (MST) north of the jet impringement barrier. Both of these areas are inaccessible during plant operation.

ALTERNATE TESTING: An exercise test of each valve during cold shutdown if not performed within the previous 92 days as allowed by IWV-3412(a).

IST CHANGE REQUEST FORM

ISTCR #: 0014			
Date: July 22, 1994	**Requester:** Jr. Victory	**Department:** Systems Engineering - IST	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1CMS*SOV31A, B, C & D; 32A & G, 35A, B, C & D	
Affected Pages: Appendix C, page 83, 85, 86 & 88 of 105	**STP Change Required:** N/A	**Relief Requests:** N/A	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Delete the Fail-Safe test requirement and indicate the safety position of these valves as O & C.

Justification for the Requested Change:

These valves fail "AS-IS" (reference 3247.501-240-003L, p.1-2; FSK33-2B, D)as do most valves in the plant. The fail safe test is only performed if the valve fails to a certain position and not "AS-IS". The valves are actually tested open and closed quarterly and the Valve Table should be revised to indicate both safety functions.

Reviewed: L. L. Hockman 0945 8/2/94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] 0246 / 8-12-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
33-2A	552	CMS	8/12/94	0014	CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Positions Normal	Positions Safety	Dwg. Coord.	Type	Freq.	Relief	
1CMS*SOV31B	2	A	3/4	GL	SO	O	O&C	G-5	FSE	Q		
									FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CMS*SOV31D	2	A	3/4	GL	SO	O	O&C	F-5	FSE	Q		
									FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CMS*SOV33B	2	B	3/4	GL	SO	C	O&C	J-13	FSE	Q		
							C		FS	Q		
									PI	RF		
1CMS*SOV33BB	2	B	3/4	GL	SO	C	O&C	K-6	FSE	Q		
							C		FS	Q		
									PI	RF		
1CMS*SOV33D	2	B	3/4	GL	SO	C	O&C	K-13	FSE	Q		
							C		FS	Q		
									PI	RF		
1CMS*SOV33F	2	B	3/4	GL	SO	C	O&C	J-14	FSE	Q		
							C		FS	Q		
									PI	RF		
1CMS*SOV33H	2	B	3/4	GL	SO	C	O&C	K-12	FSE	Q		
							C		FS	Q		
									PI	RF		

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
33-2A	552	CMS	6/1/94	0001	CONTAINMENT ATMOS. & LEAKAGE MONITORING

IST CHANGE REQUEST FORM

ISTCR #: 0015			
Date: August 1, 1994	**Requester:** Jr. Victory	**Department:** Systems Engineering - IST	**Phone:** 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1B33*AOVF019 &020; 1B33*VF013A & B, 17A & B; 1RCS*MOV58A & B,59A & B,60A & B ,61A & B; 1CCP*MOV142, 143 & 144, 1CCP*V119; 1SWP*MOV4A & 4B; 1SWP*RV119 & 140; 1SAS*V489; 1IAS*V78; 1C41*VF006 & 007; 1CPM*MOV1A & B ,2A & B, 3A & B, 4A & B; 1HVR*AOV125, 126, 147 & 148; 1CMS*SOV34B & 34D; 1CMS*V41; 1CMS*SOV32A & 32G; 1CMS*V40; 1DFR*V1, 2, 3 & 4; 1DER *V14, 15, 16 & 17	
Affected Pages: Appendix C, page 3, 4, 5, 21, 29, 31, 36, 38, 39, 61, 62, 73, 84, 85, 86, 88, 97, 98, & 100 of 105 and CSJs 14, 16, 37, 52 & 54	**STP Change Required:** N/A	**Relief Requests:** CSJ-14, CSJ-16, CSJ-37, CSJ-52 & CSJ-54	**CR's, MR's, MWO's:** 94-0983

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

As appropriate, change the VALVE CATEGORY for the listed valves from A to B and from A/C to C and delete the Leak Rate Test Requirement and the reference to the Drywell Bypass Leak Test.

Justification for the Requested Change:

These valves do not meet the definition of category "A" as defined in section XI. They are not individually leak tested and therefore should be classified as category "B" or "C". The drywell bypass leak test does not individually test these valves therefore the reference to the drywell bypass leak test should be removed from the IST Program.

Reviewed: E. L. Hackman 0945 8/19/94 *(IST Engineer / Coordinator / KCN / Date)*	**Approved:** [signature] 0956 / 8-17-94 *(SE Supervisor / KCN / Date)*

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
25-10	053	RCS	8/19/94	0015	REACTOR RECIRCULATION

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Remarks	
1RCS*MOV58A	2	B	1	GL	MO	O	C	F-14	FSE PI	CS RF	16	
1RCS*MOV58B	2	B	1	GL	MO	O	C	F-14	FSE PI	CS RF	16	
1RCS*MOV59A	2	B	1	GL	MO	O	C	E-14	FSE PI	CS RF	16	
1RCS*MOV59B	2	B	1	GL	MO	O	C	E-14	FSE PI	CS RF	16	
1RCS*MOV60A	2	B	1/2	GL	MO	O	C	D-14	FSE PI	CS RF	16	
1RCS*MOV60B	2	B	1/2	GL	MO	O	C	D-14	FSE PI	CS RF	16	
1RCS*MOV61A	2	B	3/4	GL	MO	O	C	C-14	FSE PI	CS RF	16	

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
25-1D	053	RCS	8/19/94	0015	REACTOR RECIRCULATION

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	ASME Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1RCS*MOV61B	2	B	3/4	GL	MO		C	C-14	FSE PI	CS RF	16	

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-1A	115	CCP	8/19/94	0015	CLOSED COOLING WATER - REACTOR PLANT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CCP*MOV138	2	A	10	GA	MO	O	C	B-18	FSE	CS	14	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CCP*MOV142	2	B	6	BF	MO	O	C	B-16	FSE	CS	14	
									PI	RF		
									B	B		B
1CCP*MOV143	2	B	6	BF	MO	O	C	J-9	FSE	CS	14	
									PI	RF		
									B	B		B
1CCP*MOV144	2	B	6	BF	MO	O	C	H-9	FSE	CS	14	
									PI	RF		
									B	B		B
1CCP*MOV158	2	A	10	GA	MO	O	C	J-17	FSE	CS	14	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CCP*MOV159	2	A	10	GA	MO	O	C	J-19	FSE	CS	14	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CCP*V118	2	AC	10	CK	SA	O	C	B-17	FSE	RF	26	
									LR	RF		10 CFR 50, APP. J Test
1CCP*V119	2	C	6	CK	SA	O	C	B-15	FSE	RF	02	

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-100	118	SWP	8/19/94	0015	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1SWP*MOV4A	3	B	12	GA	MO	O	C	B-17	FSE PI	CS RF	52	
1SWP*MOV4B	3	B	12	GA	MO	O	C	D-17	FSE PI	CS RF	52	
1SWP*MOV5A	3	A	10	GA	MO	O	C	L-18	FSE PI LR	CS RF RF	52	10 CFR 50, APP. J Test
1SWP*MOV5B	3	A	10	GA	MO	O	C	H-18	FSE PI LR	CS RF RF	52	10 CFR 50, APP. J Test
1SWP*MOV81A	3	A	12	GA	MO	O	O&C	N-20	FSE PI LR	Q RF RF	52	10 CFR 50, APP. J Test
1SWP*MOV81B	3	A	12	GA	MO	O	O&C	H-20	FSE PI LR	Q RF RF	52	10 CFR 50, APP. J Test
1SWP*MOV501A	3	B	18	BF	MO	O	C	N-1	FSE PI	Q RF		
1SWP*MOV501B	3	B	18	BF	MO	O	C	N-3	FSE PI	Q RF		

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-100	118	SWP	8/19/94	0015	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SWP*MOV507B	3	A	12	GA	MO	O	O&C	D-20	FSE PI LR	Q RF RF	52	 10 CFR 50, APP. J Test
1SWP*MOV510A	3	B	12	GA	MO	C	O&C	B-21	FSE PI	RF RF	11	
1SWP*MOV510B	3	B	12	GA	MO	C	O&C	E-21	FSE PI	RF RF	11	
1SWP*MOV511A	3	B	18	BF	MO	O	C	G-1	FSE PI	Q RF		
1SWP*MOV511B	3	B	18	BF	MO	O	C	G-3	FSE PI	Q RF		
1SWP*RV119	3	C	1	RV	SA	C	O&C	B-16	SP	RF3		
1SWP*RV140	2	C	3/4	RV	SA	C	O&C	N-17	SP	RF3		
1SWP*V172	3	C	30	CK	SA	C	O	P-5	FSE	RF	27	
1SWP*V173	3	C	30	CK	SA	C	O	N-5	FSE	RF		
1SWP*V174	3	AC	12	CK	SA	O	O&C	D-18	FSE LR	CS RF	42	 10 CFR 50, APP. J Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
12-2C	121	SAS	8/18/94	0015	AIR SERVICE & BREATHING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SAS*MOV102	2	A	4	GA	MO	O	C	B-16	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1SAS*MOV103	2	A	4	GA	MO	O	C	B-17	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1SAS*V486	2	AC	4	CK	SA	O	C	C-15	FSE	RF	26	
									LR	RF		10 CFR 50, APP. J Test
1SAS*V489	2	B	4	GA	MA	LC	LC	F-14	LR	RF		Drywell Bypass Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
12-1C	122	IAS	8/19/94	0015	AIR - INSTRUMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act; uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1IAS*MOV106	2	A	3	GA	MO	O	C	G-8	FSE	CS	12	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1IAS*MOV107	2	A	3	GA	MO	O	C	G-8	FSE	CS	12	
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1IAS*SOV41A	3	B	2	GA	SO	O	C	L-3	FSE	Q		
									FS	Q		
									PI	RF		
1IAS*SOV41B	3	B	2	GA	SO	O	C	M-3	FSE	Q		
									FS	Q		
									PI	RF		
1IAS*V78	2	C	3	CK	SA	O	C	H-11	FSE	RF	02	Drywell Bypass Test
1IAS*V80	2	AC	3	CK	SA	O	C	G-9	FSE	RF	26	
									LR	RF		10 CFR 50, APP. J Test
1IAS*V562	3	C	2	CK	SA	O	O&C	L-3	FSE	CS	29	
1IAS*V563	3	C	2	CK	SA	O	O&C	M-3	FSE	CS	29	

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-21A	254	CPM	8/18/94	9015	H2 MIXING, PURGE & RECOMBINER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CPM*MOV1A	2	B	6	BF	MO	C	O&C	J-18	FSE PI	CS RF	54	
1CPM*MOV1B	2	B	6	BF	MO	C	O&C	J-14	FSE PI	CS RF	54	
1CPM*MOV2A	2	B	6	BF	MO	C	O&C	G-14	FSE PI	CS RF	54	
1CPM*MOV2B	2	B	6	BF	MO	C	O&C	G-18	FSE PI	CS RF	54	
1CPM*MOV3A	2	B	6	BF	MO	C	O&C	J-17	FSE PI	CS RF	54	
1CPM*MOV3B	2	B	6	BF	MO	C	O&C	J-15	FSE PI	CS RF	54	
1CPM*MOV4A	2	B	6	BF	MO	C	O&C	G-14	FSE PI	CS RF	54	

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-1B	403	HVR	8/19/94	0015	HVAC-CONTAINMENT BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVR*AOV123	2	A	36	BF	AO	C	O&C C	C-11	FSE FS PI LR	Q Q RF Q	59	10 CFR 50, APP. J Test
1HVR*AOV125	2	B	24	BF	AO	C	O&C C	C-8	FSE FS PI	CS CS RF	37	
1HVR*AOV126	2	B	24	BF	AO	C	O&C C	N-18	FSE FS PI	CS CS RF	37	
1HVR*AOV128	2	A	36	BF	AO	C	O&C C	N-17	FSE FS PI LR	Q Q RF Q	59	10 CFR 50, APP. J Test
1HVR*AOV147	2	B	24	BF	AO	C	O&C C	D-9	FSE FS PI	CS CS RF	37	
1HVR*AOV148	2	B	24	BF	AO	C	O&C C	N-19	FSE FS PI	CS CS RF	37	

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CMS*SOV33K	2	B	3/4	GL	SO	C	O&C C	J-11	FSE FS PI	Q Q RF		
1CMS*SOV33T	2	B	3/4	GL	SO	C	O&C C	K-10	FSE FS PI	Q Q RF		
1CMS*SOV33V	2	B	3/4	GL	SO	C	O&C C	J-9	FSE FS PI	Q Q RF		
1CMS*SOV33X	2	B	3/4	GL	SO	C	O&C C	K-8	FSE FS PI	Q Q RF		
1CMS*SOV33Z	2	B	3/4	GL	SO	C	O&C C	J-7	FSE FS PI	Q Q RF		
1CMS*SOV34B	2	B	3/4	GL	SO	C	O&C C	G-15	FSE FS PI	Q Q RF		
1CMS*SOV34D	2	B	3/4	GL	SO	C	O&C C	H-15	FSE FS PI	Q Q RF		Drywell Bypass Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
33-2A	552	CMS	8/18/94	0015	CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CMS*SOV35B	2	A	3/4	GL	SO	O	O&C	F-6	FSE	Q		
									FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CMS*SOV35D	2	A	3/4	GL	SO	O	O&C	G-6	FSE	Q		
									FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CMS*V41	2	C	3/4	CK	SA	O	C	F-15	FSE	RF	02	Drywell Bypass Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
33-2B	552	CMS	8/19/94	0015	CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CMS*SOV31A	2	A	3/4	GL	SO	O	O&C	G-19	FSE	Q		
									FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CMS*SOV31C	2	A	3/4	GL	SO	O	O&C	G-19	FSE	Q		
									FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1CMS*SOV32A	2	B	3/4	GL	SO	O	O&C	H-7	FSE	Q		
									FS	Q		
									PI	RF		
1CMS*SOV32G	2	B	3/4	GL	SO	O	O&C	F-7	FSE	Q		
									FS	Q		
									PI	RF		
1CMS*SOV33A	2	B	3/4	GL	SO	C	O&C	K-15	FSE	Q		
							C		FS	Q		
									PI	RF		
1CMS*SOV33AA	2	B	3/4	GL	SO	C	O&C	K-7	FSE	Q		
							C		FS	Q		
									PI	RF		

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
33-2B	552	CMS	8/19/94	0015	CONTAINMENT ATMOS. & LEAKAGE MONITORING

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CMS*SOV33Y	2	B	3/4	GL	SO	C	O&C C	K-8	FSE FS PI	Q Q RF		
1CMS*SOV34A	2	B	3/4	GL	SO	C	O&C C	G-7	FSE FS PI	Q Q RF		
1CMS*SOV34C	2	B	3/4	GL	SO	C	O&C C	G-7	FSE FS PI	Q Q RF		
1CMS*SOV35A	2	A	3/4	GL	SO	O	O&C	G-16	FSE FS PI LR	Q Q RF RF		10 CFR 50, APP. J Test
1CMS*SOV35C	2	A	3/4	GL	SO	O	O&C	G-16	FSE FS PI LR	Q Q RF RF		10 CFR 50, APP. J Test
1CMS*V40	2	C	3/4	CK	SA	C	C	F-7	FSE	RF	02	Drywell Bypass Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32.9A	609	DFR	8/19/94	0015	DRAINS-FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1DFR*V1	2	C	8	CK	SA	O	C	C-20	FSE	RF	02	
1DFR*V2	2	C	8	CK	SA	O	C	C-20	FSE	RF	02	
1DFR*V3	2	C	8	CK	SA	O	C	C-13	FSE	RF	02	
1DFR*V4	2	C	8	CK	SA	O	C	C-12	FSE	RF	02	

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32.9B	609	DER	8/19/94	0015	DRAINS-FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1DER*AOV126	2	A	4	GL	AO	O	C	B-9	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1DER*AOV127	2	A	4	GL	AO	O	C	B-8	FSE	Q		
							C		FS	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1DER*V4	2	AC	3/4	CK	SA	C	O	B-9	FSE	CS	41	
							C		LR	RF		10 CFR 50, APP. J Test
1DER*V16	2	C	8	CK	SA	O	C	H-2	FSE	RF	02	
1DER*V17	2	C	8	CK	SA	O	C	H-2	FSE	RF	02	

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32-6G	609	DER	8/19/94	0015	DRAINS-FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1DER*V14	2	C	8	CK	SA	O	C	F-19	FSE	RF	02	
1DER*V15	2	C	8	CK	SA	O	C	F-18	FSE	RF	02	

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 14

COMPONENT:	FUNCTION	CLASS	CATEGORY
1CCP*V133	Closed Cooling Water return line dryw penetration thermal expansion release	2	AC
1CCP*V160	Closed Cooling Water return line containment penetration thermal expan release check	2	AC
1CCP*MOV138 1CCP*MOV142	Closed Cooling Water supply line to Recirculation Pump bearing cooler containment isolation	2	B
1CCP*MOV148 1CCP*MOV144	Closed Cooling Water return line to Recirculation Pump bearing cooler dry isolation	2	B
1CCP*MOV158 1CCP*MOV159	Closed Cooling Water return line from Recirculation Pump bearing cooler containment isolation	2	A
1CCP*MOV163 1CCP*MOV169	Closed Cooling Water supply line to th Control Rod Drive pump bearing cool header isolation	3	A

TEST REQUIREMENT: Per IWV-3411 and IWV-3521, Category A and B valves and check valves shall be exercised at least once every three months.

BASIS FOR JUSTIFICATION: The exercise testing of the valves during normal operation could cause overheating of the Recirculation Pump motor and bearings or the Control Rod Drive pump bearings. The overheating of the pump bearings would require the shutdown of a pump necessary for plant operation

ALTERNATE TESTING: An exercise test of each valve during cold shutdown if not performed within the previous 92 days as allowed by IWV-3412(a) and IWV-3522.

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 16

COMPONENT:	FUNCTION	CLASS	CATEGORY
1RCS*MOV58A,B 1RCS*MOV59A,B 1RCS*MOV60A,B 1RCS*MOV61A,B	Recirculation system flow control dry isolation	2	B

TEST REQUIREMENT:	Per IWV-3411 Category A and B valves and check valves shall be exercised at least once every three months.
BASIS FOR JUSTIFICATION:	The exercise testing of the valves during normal operation could cause abnormal movement of the recirculation loop flow control valves resulting in a reactivity change and a possible reactor scram. The design of the valves does not facilitate a partial stroke test
ALTERNATE TESTING:	An exercise test of each valve during cold shutdown if not performed within the previous 92 days as allowed by IWV-3412(a).

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 37

COMPONENT:	FUNCTION	CLASS	CATEGORY
1HVR*AOV125 1HVR*AOV147	Drywell Purge System supply penetrati isolation	2	B
1HVR*AOV126 1HVR*AOV148	Drywell Purge System exhaust penetra isolation	2	B

TEST REQUIREMENT:	Per IWV-3411 Category A and B valves and check valves shall be exercised at least once every three months.
BASIS FOR JUSTIFICATION:	The opening of the valves during plant operation is not allowed by the RBS Technical Specification 3.6.2.7.
ALTERNATE TESTING:	An exercise test of each valve during cold shutdown if not performed within the previous 92 days as allowed by IWV-3412(a).

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 52

COMPONENT:	FUNCTION	CLASS	CATEGORY
1SWP*V650 1SWP*V651	Drywell Unit Cooler Service Water ret check	3	C
1SWP*MOV4A,B 1SWP*MOV507A,B	Drywell Unit Cooler Service Water supply containment isolation	3	B
1SWP*MOV5A,B 1SWP*MOV81A,B	Drywel[1] Unit Cooler Service Water return containment isolation	3	A

TEST REQUIREMENT: Per IWV-3411 and IWV-3521, Category A and B valves and check valves shall be exercised at least once every three months.

BASIS FOR JUSTIFICATION: In order to test these check valves closed, both loops of service water supply to the Drywell Unit Coolers would have to be isolated since they both come together in a common return line just upstream from the check valves. This would allow the Drywell to exceed its temperature limits from loss of cooling.

The consequences of failure of either MOV507A or MOV507B as well as for MOV4A or MOV4B would be reduced cooling water flow through the Drywell Unit Coolers which would allow the drywell temperature to exceed its limits. If any of these valves failed during testing, it would require shutdown of the plant for repair.

The consequences of failure of either MOV81A or MOV81B as well as for MOV5A or MOV5B would be reduced cooling water flow through the Drywell Unit Coolers which would allow the drywell temperature tom exceed its limits.

ALTERNATE TESTING: An exercise test of each valve during cold shutdown if not performed within the previous 92 days as allowed by IWV-3412(a) and IWV-3522.

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 54

COMPONENT:	FUNCTION	CLASS	CATEGORY
1CPM*MOV1A,B 1CPM*MOV2A,B 1CPM*MOV3A,B 1CPM*MOV4A,B	Primary containment/drywell hydrogen mixing system inlet or outlet isolation.	2	B

TEST REQUIREMENT:	Per IWV-3411 Category A and B valves and check valves shall be exercised at least once every three months.
BASIS FOR JUSTIFICATION:	The opening of the valves for testing during plant operation is not allowed by the RBS Technical Specification 3.6.6.2.
ALTERNATE TESTING:	An exercise test of each valve during cold shutdown if not performed within the previous 92 days as allowed by IWV-3412(a).

IST CHANGE REQUEST FORM

ISTCR #: 0016			
Date: 8/2/94	**Requester:** C. W. Walling	**Department:** Systems Engineering - IST	**Phone:** 4842
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1C41*VF033A/B	
Affected Pages: Appendix C, page 39 of 105	**STP Change Required:** STP-201-6311 & STP-201-6312	**Relief Requests:** N/A	**CR's, MR's, MWO's:** CR 94-0857

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Change valve safety position to "O&C" for both 1C41*VF033A & B

Justification for the Requested Change:

USAR 9.3.5.2 states: "To prevent bypass flow from one pump in case of relief valve failure in the line from the other pump, a check valve is installed downstream of each relief valve line in the pump discharge pipe." This would indicate a safety function to close.

Reviewed: [signature] 8/2/94 *(IST Engineer / Coordinator / KCN / Date)*	**Approved:** [signature] 8/29/94 *(SE Supervisor / KCN / Date)*

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-16A	201	SLC	8/4/94	0016	STANDBY LIQUID CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1C41*MOVF001A	2	B	3	GL	MO	C	O	H-15	FSE PI	CS RF	18	
1C41*MOVF001B	2	B	3	GL	MO	C	O	D-15	FSE PI	CS RF	18	
1C41*RVF029A	2	C	1.5	RV	SA	C	O&C	J-11	SP	RF1		1400 psig
1C41*RVF029B	2	C	1.5	RV	SA	C	O&C	E-11	SP	RF3		1400 psig
1C41*VEXF004A	1	D	1.5	XP	XP	C	O	J-7	ET	RF		
1C41*VEXF004B	1	D	1.5	XP	XP	C	O	E-7	ET	RF		
1C41*VF006	1	AC	1.5	CK	SA	C	C O	F-5	FSE LR	RF RF	13	 Drywell Bypass Test
1C41*VF007	1	AC	1.5	CK	SA	C	C O	F-3	FSE LR	RF RF	13	 Drywell Bypass Test
1C41*VF033A	2	C	1.5	CK	SA	C	O&C	J-10	FSE	Q		
1C41*VF033B	2	C	1.5	CK	SA	C	O&C	E-10	FSE	Q		

IST CHANGE REQUEST FORM

ISTCR #: 0017			
Date: August 16, 1994	**Requester:** J. Rogers	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1LSV*SOVX26A & B, 1LSV*SOVY26A & B	
Affected Pages: Appendix C, page 64 of 105	**STP Change Required** STP-255-3300	**Relief Requests:** N/A	**CR's, MR's, MWO's:** CR 94-0983

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Add FS-O, Fail Safe Open test for valves 1LSV*SOVX26A & B and add FS-C Fail Safe Closed for valves 1LSV*SOVY26A & B.

Justification for the Requested Change:

Valves 1LSV*X26A & B have a safety function in the open direction to supply accumulator air to the compresor unload valve. They fail to the open position on loss of power.

Valves 1LSV*Y26A & B have a safety function in the closed direction to isolate non-safety plant instrument air and establish a flow path for PVLCS accumulator air to the compressor unload valve. They fail to the closed position on loss of power.

These valves are currently tested in procedure STP-255-3300, however fail safe testing is not identified nor documented.

Reviewed: L. L. Hackman 0945 8-16-94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] 8-18-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-20B	255	LSV	8/18/94	0017	MSIV & PENE. VLV LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	G Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1LSV*RV8A	2	C	1X1.5	RV	SA	C	O&C	E-14	SP	RF2		140 psig
1LSV*RV8B	2	C	1X1.5	RV	SA	C	O&C	P-14	SP	RF3		140 psig
1LSV*SOVX26A	2	B		GL		C	O O	E-16	FSE FS	Q Q		
1LSV*SOVX26B	2	B		GL		C	O O	P-16	FSE FS	Q Q		
1LSV*SOVY26A	2	B		GL		O O	C	E-18	FSE FS	Q Q		
1LSV*SOVY26B	2	B		GL		O O	C	P-18	FSE FS	Q Q		
1LSV*V12	2	C	1	CK	SA	C	O&C	H-17	FSE	RF	04	
1LSV*V18	2	C	1	CK	SA	C	O&C	F-10	FSE	RF	04	
1LSV*V20	2	C	1	CK	SA	C	O&C	D-8	FSE	RF	04	
1LSV*V22	2	C	1	CK	SA	C	O&C	C-9	FSE	RF	04	
1LSV*V24	2	C	1	CK	SA	C	O&C	A-9	FSE	RF	04	
1LSV*V26	2	C	1	CK	SA	C	O&C	N-6	FSE	RF	04	
1LSV*V28	2	C	1	CK	SA	C	O&C	L-6	FSE	RF	04	
1LSV*V30	2	C	1	CK	SA	C	O&C	J-6	FSE	RF	04	
1LSV*V32	2	C	1	CK	SA	C	O&C	H-6	FSE	RF	04	

IST CHANGE REQUEST FORM

ISTCR #: 0018			
Date: August 16, 1994	**Requester:** J. Victory	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1CPP*MOV104, 1CPP*MOV105, 1CPP*SOV140 & 1CPP*V2	
Affected Pages: Appendix C, page 62 of 105	**STP Change Required** STP-254-6301	**Relief Requests:** N/A	**CR's, MR's, MWO's:** DR# H1

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Delete the safety position of Open for the identified valves and delete 1CPP*V2 from the program.

Justification for the Requested Change:

These valves have an active safety function in the closed direction as containment isolation valves. The lines up stream of these valves are non-classed and non-safety therefore, they do not have a safety function to supply air during an accident. 1CPP*V2 does not have a safety function per this discussion. This valve does not have a safety function in the closed direction as the upstream valve is a containment isolation valve.

Reviewed: E. C. Hackman 0945 8/16/94
(IST Engineer / Coordinator / KCN / Date)

Approved: Tony Jardine 1396/8-18-94
(IST Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
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P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-21A	254	CPM	8/18/94	0018	H2 MIXING, PURGE & RECOMBINER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CPM*MOV4B	2	B	8	BF	MO	C	O&C	G-17	FSE PI	CS RF	54	
1CPP*MOV104	2	A	3	GA	MO	C	C	F-3	FSE PI LR	Q RF RF		10 CFR 50, APP. J Test
1CPP*MOV105	2	A	3	GA	MO	C	C	H-2	FSE PI LR	Q RF RF		10 CFR 50, APP. J Test
1CPP*SOV140	2	A	1	GA	SO	C	C C	H-10	FSE FS PI LR	Q Q RF RF		10 CFR 50, APP. J Test

IST CHANGE REQUEST FORM

ISTCR #: 0019			
Date: August 16, 1994	**Requester:** Jr. Victory	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1FPW*MOV121 & 122, 1FPW*V263	
Affected Pages: Appendix C, page 60 of 105	**STP Change Required** STP-254-6301	**Relief Requests:** N/A	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Change the class designation from 3 to 2 , and delete the requirement LR RF PVLCS Div. Test.

Justification for the Requested Change:

These valves are designated as class 2 on P&ID 15-1C. This is the proper designation. The PVLCS Div. test is not a separate test, it is an accumulation of the individual test therefore should not be referenced in the program as a separate test.

Reviewed: C.L. Hackman 0945 8-18-94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] 1029 8-18-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Pgm Rev. Date	ISTCR #:	System Name:
15-1C	251	FPW	9/18/94	0019	FIRE PROTECTION-WATER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1FPW*MOV121	2	A	6	GA	MO	C	C	P-16	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		PVLCS Valve Test
1FPW*MOV122	2	A	6	GA	MO	C	C	P-17	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Valve Test
1FPW*V263	2	AC	6	CK	SA	C	C	P-14	FSE	RF	26	
									LR	RF		10 CFR 50, APP. J Test

IST CHANGE REQUEST FORM

ISTCR #: 0020			
Date: August 17, 1994	**Requester:** Jr. Victory	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1CCP*V133	
Affected Pages: Appendix C, page 22 of 105	**STP Change Required** N/A	**Relief Requests:** N/A	**CR's, MR's, MWO's:** CR 94-0983

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Change the category from AC to C and delete leak rate (LR) test and reference to 10CFR50 Appendix J Test.

Justification for the Requested Change:

This valve has an active safety function as defined in the Technical Specification to close for drywell integrity and open for thermal relief.

Reviewed: L. L. Hockman 0945 8-18-94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] 8-18-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-1A	115	CCP	8/18/94	0020	CLOSED COOLING WATER - REACTOR PLANT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1CCP*V133	2	C	1.5	CK	SA	C	O&C	H-9	FSE	CS	14	
1CCP*V160	2	AC	1.5	CK	SA	C	O&C	K-17	FSE	CS	14	
									LR	RF	51	10 CFR 50, APP. J Test

IST CHANGE REQUEST FORM

ISTCR #: 0021			
Date: August 17, 1994	**Requester:** J. Rogers	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1B21*MOVF027A, B, C and D	
Affected Pages: Appendix C, page 55 of 105	**STP Change Required** N/A	**Relief Requests:** N/A	**CR's, MR's, MWO's:** DR# LCS-5

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Delete these valves from the program.

Justification for the Requested Change:

These valves are the outboard Main Steam isolation Valves stem packing leakoff lines motor operated isolation valves. They are normally open providing a flow path to the equipment drain system for MSIVs stem leakoff. These valves are also required to be open to allow the MS-PLCS to pressurize the outboard MSIVs stem packing areas.

These valves are classified as category B passive.

Reviewed: C. L. Hackman 0945 - 8-18-94 *(IST Engineer / Coordinator / KCN / Date)*	**Approved:** [signature] 8-18-94 *(SE Supervisor / KCN / Date)*

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-20A	208	MSI	8/19/94	0021	MSIV POSITIVE LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E33*MOVF005	2	B	2	GL	MO	C	O&C	M-16	FSE PI	Q RF		
1E33*MOVF006	2	B	2	GL	MO	O	O&C	L-16	FSE PI	Q RF		
1E33*MOVF007	2	B	2	GL	MO	C	O&C	L-15	FSE PI	Q RF		
1E33*MOVF008	1	A	2	GL	MO	C	O&C	K-15	FSE PI LR	Q RF RF		PVLCS Div. Test
1E33*MOVF025	2	B	2	GL	MO	C	O&C	M-8	FSE PI	Q RF		

IST CHANGE REQUEST FORM

ISTCR #: 0022			
Date: August 17, 1994	**Requester:** J. Rogers	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1HVN*V542 & 543	
Affected Pages: Appendix C, page 80 of 105	**STP Change Required** N/A	**Relief Requests:** N/A	**CR's, MR's, MWO's:**

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Delete these valves from the program.

Justification for the Requested Change:

These valves are normally closed manual valves which have no specific leakage criteria. (Reference Technical Specification Table 3.6.4-1, note k) These valves should be classified as category B passive.

Reviewed: L. C. Hackman 0945 8-18-94
(IST Engineer / Coordinator / KCN / Date)

Approved: Doug Jedlicka / ODK / 8-18-94
(IST Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-140	410	HVN	8/18/94	0022	HVAC-CHILLED WATER

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVN*MOV130	2	A	8	GA	MO	O	C	D-4	FSE	Q		
									PI	RF		
									LR	RF		PVLCS Valve Test
									LR	RF		PVLCS Div. Test
1HVN*V541	2	AC	8	CK	SA	O	C	L-10	FSE	RF	26	
1HVN*V544	3	C	6	CK	SA	O	O	K-6	FSE	Q		
1HVN*V545	3	C	6	CK	SA	O	O	H-8	FSE	Q		
1HVN*V546	3	C	6	CK	SA	O	O	M-3	FSE	Q		
1HVN*V547	3	C	6	CK	SA	C	O	G-3	FSE	Q		
1HVN*V1316	2	AC	3/4	CK	SA	C	C	J-2	FSE	RF	26	
									LR	RF		10 CFR 50, APP. J Test

IST CHANGE REQUEST FORM

ISTCR #: 0023			
Date: August 17, 1994	**Requester:** J. Rogers	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1E33*SOVF034	
Affected Pages: Appendix C, page 56 of 105	**STP Change Required** N/A	**Relief Requests:** N/A	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Add this valve to the program.

Justification for the Requested Change:

These valves are the Main Steam Posative Leakage Control System soleniod operated pressure control bypass valves. They are normally closed isolating the PVLCS system pressure from the MS-PLCS injection piping. They are opened automatically, when the MS-PLCS is initiated , to rapidly pressurize the main steam linevo;ume in the required time limit provided the

These valves are classified as category B passive.

Reviewed: C. C. Hackman 0945 8-19-94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] 1022/8-19-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-20A	208	MSI	8/19/94	0023	MSIV POSITIVE LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E33*MOVF026	2	B	2	GL	MO	O	O&C	L-7	FSE PI	Q RF		
1E33*MOVF027	2	B	2	GL	MO	C	O&C	L-6	FSE PI	Q RF		
1E33*MOVF028	2	B	2	GL	MO	C	O&C	L-6	FSE PI	Q RF		
1E33*SOVF014	2	B	2	GL	SO	C	O&C C	L-18	FSE FS PI	Q Q RF		
1E33*SOVF034	2	B	2	GL	SO	C	O&C C	L-9	FSE FS PI	Q Q RF		
1E33*VF004	2	C	2	CK	SA	O	O	M-17	FSE	Q		
1E33*VF024	2	C	2	CK	SA	O	O	M-8	FSE	CS		

IST CHANGE REQUEST FORM

ISTCR #: 0024			
Date: August 17, 1994	**Requester:** J. K. Roberts	**Department:** System Engineering - IST	**Phone:** X 4554
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1B33*VF013A, 13B, 17A, & 17B	
Affected Pages: Appendix C, page 3 of 105; Appendix D, VRR-I-01 & CSJ-70	**STP Change Required** N/A	**Relief Requests:** VRR-I-01, CSJ-70	**CR's, MR's, MWO's:** MR 92-0085

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Change Appendix C, page 3 of 107, **TEST INFORMATION,** test **Freq.** from "RF" to "CS and the **Relief** number from 02 to 70"; Appendix D delete the Interim Valve Relief Request No. VRR-I-01 which is superseded by adding Cold Shutdown Justification No. 70.

Justification for the Requested Change:

The test frequency for these valves was at refuel per Valve Relief Request No. 2, this change is possible as the result of implementation of MR 92-0085 which installs test connections (installation completed during RF-5).

Reviewed: G. L. Hackman 0945 8/23/94
(IST Engineer / Coordinator / KCN / Date)

Approved: Jerry Jardin 0296 8-23-94
(ISE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
25-1C	053	RCS	8/23/94	0024	REACTOR RECIRCULATION

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1B33*AOVF019	2	B	3/4	GL	AO	O	C	L-9	FSE FS PI	Q Q RF	2	
1B33*AOVF020	2	B	3/4	GL	AO	O	C	L-8	FSE FS PI	Q Q RF	2	
1B33*VF013A	2	C	3/4	CK	SA	O	C	F-5	FSE	CD	70	
1B33*VF013B	2	C	3/4	CK	SA	O	C	F-17	FSE	CS	70	
1B33*VF017A	2	C	3/4	CK	SA	O	C	E-7	FSE	CS	70	
1B33*VF017B	2	C	3/4	CK	SA	O	C	E-16	FSE	CS	70	

INTERIM

VALVE REQUEST FOR RELIEF NO. I-01

DELETED - SUPERSEDED BY CSJ-70

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 70

COMPONENT:	FUNCTION	CLASS	CATEGORY
1B33*VF013A 1B33*VF013B 1B33*VF017A 1B33*VF017B	Reactor recirculation pump mechanical water supply, drywell isolation valves	2	C

TEST REQUIREMENT: Reverse flow test to the closed position quarterly.

BASIS FOR JUSTIFICATION: Reverse flow testing these valves quarterly would require isolating the seal water flow to the reactor recirculation pumps. The interruption of seal water flow, even for a short time, could result in extensive damage to the pump seals.
Additionally, the test connections for these valves are located in the drywell and entry into the drywell does not routinely occur during a normal cold shutdown due tom alara considerations.

ALTERNATE TESTING: Reverse flow test during cold shutdown when the drywell is accessible to personnel.

TO: Controlled Copy Holders of IST Pump and Valve Program manual

Please insert the attached changes into your manual.

1. ISTCR #0023 - In the back of the manual replace ISTCR#0023 with the CORRECTED COPY.

2. ISTCR #0025 - In Appendix C, remove and replace page 26 and 27 of 105; place ISTCR #0025 in the back of the manual.

3. ISTCR #0026 - In Appendix C, remove and replace pages 72 through 78 of 105; place ISTCR #0013 in the back of the manual.

4. ISTCR #0027 - In Appendix C, remove and replace page 32 of 105; place ISTCR #0027 in the back of the manual.

5. STCR #0028 - In Appendix C, remove and replace page 34 of 105; place ISTCR #0028 in the back of the manual.

6 ISTCR #0029 - In Appendix C, remove and replace page 31 and 67 of 105 ; in Appendix D remove and replace CSJ-27; place ISTCR #0029 in the back of the manual.

7. ISTCR #0030 In Appendix C, remove and replace page 42 through 52 of 105; place ISTCR #0030 in the back of the manual.

8. ISTCR #0031- In Appendix C, remove and replace page 31 of 105 ; in Appendix D remove and replace CSJ-78; place ISTCR #0031 in the back of the manual.

9. ISTCR #0032- In Appendix C, remove and replace page 64, 65 and 66 of 105; I place ISTCR #0032 in the back of the manual.

******* CORRECTED COPY *******

IST CHANGE REQUEST FORM

ISTCR #: 0023			
Date: August 17, 1994	**Requester:** J. Rogers	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1E33*SOVF034	
Affected Pages: Appendix C, page 56 of 105	**STP Change Required** N/A	**Relief Requests:** N/A	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Add this valve to the program.

Justification for the Requested Change:

These valves are the Main Steam Positive Leakage Control System solenoid operated pressure control bypass valves. They are normally closed isolating the PVLCS system pressure from the MS-PLCS injection piping. They are opened automatically, when the MS-PLCS is initiated , to rapidly pressurize the main steam line volume in the required time limit provided supply line pressure is greater than 50 psig and reactor pressure is less than 25 psig. They close automatically, when the 5 minute time delay has timed out or the steam line to the reactor pressure differential is achieved , to isolate the pressure control valve bypass flow path and limit the amount of air supplied to the process line to allow for long term leakage control operation. They also close automatically the supply air pressure from PVLCS decreases to less than 50 psig or the reactor pressure increases above 25 psig. The valve fails safe to the closed position on loss of power

This valve is currently tested in accordance with STP-208-6701.

Reviewed: R. L. Hockman 0945 8/29/94
(IST Engineer / Coordinator / KCN / Date)

Approved: Jerry Fredrickson 0940 9-29-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

IST CHANGE REQUEST FORM

ISTCR #: 0025			
Date: August 23, 1994	**Requester:** R. H. Martin	**Department:** Systems Engineering - IST	**Phone:** X 4836
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1SWP*PVY32A, B, C & D	
Affected Pages: Appendix C, page 26 of 105 *	**STP Change Req'd:** STP-256-6321 & STP-256-6322	**Relief Requests:** N/A	**CR's, MR's, MWO's:** CR 94-0997

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Add these valves to the Program for Full Stroke Exercise (FSE), Stroke time to the open position (ST-O) and Fail-Safe test in the open direction

Justification for the Requested Change:

These valves have a safety function to fail-safe to the open position on loss of power to allow maximum cooling flow through the Control Bldg. Chilled Water Chiller condensers.

Reviewed: C. Lockman 0995 9/29/94
(IST Engineer / Coordinator / KCN / Date)

Approved: Jay Jadin 0994 8-25-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

* This change has moved data from page 26 to page 21 of 105, incorporates ISTCR #1008
C.L.H 9/13/94
9/13/94

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
8-108	118	SWP	8/29/94	0025	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1SWP*MOV77B	3	B	8	BF	MO	O	O&C	P-4	FSE PI	Q RF		
1SWP*MOV96A	3	B	30	BF	MO	O	C	D-18	FSE PI	Q RF		
1SWP*MOV96B	3	B	30	BF	MO	O	C	E-17	FSE PI	Q RF		
1SWP*V77	3	C	6	CK	SA	O	O	M-17	FSE	Q		
1SWP*V78	3	C	6	CK	SA	O	O	L-18	FSE	Q		
1SWP*V79	3	C	6	CK	SA	O	O	J-19	FSE	Q		
1SWP*V80	3	C	6	CK	SA	C	O	G-19	FSE	Q		
1SWP*PV32A	3	B	6	GL	HYD	THR	O O	M-11	FSE FS	Q Q		
1SWP*PV32B	3	B	6	GL	HYD	THR	O O	K-13	FSE FS	Q Q		
1SWP*PV32C	3	B	6	GL	HYD	THR	O O	L-11	FSE FS	Q Q		
1SWP*PV32D	3	B	6	GL	HYD	THR	O O	G-13	FSE FS	Q Q		

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-10B	118	SWP	8/29/94	0025	SERVICE WATER NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1SWP*V135	3	C	8	CK	SA	O	O&C	P-6	FSE	RF	25	
1SWP*V136	3	C	8	CK	SA	O	O&C	P-5	FSE	RF	25	
1SWP*V143	3	C	8	CK	SA	O	O&C	N-4	FSE	RF	25	
1SWP*V144	3	C	8	CK	SA	O	O&C	N-3	FSE	RF	25	
1SWP*V153	3	C	6	CK	SA	C	C	M-17	FSE	Q		
1SWP*V154	3	C	6	CK	SA	C	C	L-17	FSE	Q		
1SWP*V155	3	C	6	CK	SA	C	C	J-18	FSE	Q		
1SWP*V156	3	C	6	CK	SA	C	C	G-18	FSE	Q		
1SWP*V201	3	C	8	CK	SA	O	O&C	M-6	FSE	CS	69	
1SWP*V202	3	C	8	CK	SA	O	O&C	M-1	FSE	CS	69	
1SWP*V326	3	C	30	CK	SA	O	C	A-16	FSE	RF	58	
1SWP*V327	3	C	30	CK	SA	O	C	C-16	FSE	RF	58	

IST CHANGE REQUEST FORM

ISTCR #: 0026			
Date: August 29, 1994	**Requester:** Jr. Victory	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1HVC*MOV1A, 1HVC*MOV1B, 1HVR*AOV123, 1HVR*AOV125, 1HVR*AOV126, 1HVR*AOV128, 1HVR*AOV147, 1HVR*AOV148, 1HVR*AOV165, 1HVR*AOV166, 1HVR*AOD23A, 1HVR*AOD23B, 1HVR*AOD161, 1HVF*AOD102, 1HVF*AOD104, 1HVF*AOD112, 1HVF*AOD137, 1HVF*AOD101, 1HVF*AOD122, 1HVR*AOD10A, 1HVR*AOD10B, 1HVR*AOD143, 1HVR*AOD164, 1HVR*AOD214, 1HVR*AOD249 & 1HVR*AOD262	
Affected Pages: Appendix C, page 72, 73, 74, 75, 76, 77 and 78 of 105	**STP Change Required** N/A	**Relief Requests:** N/A	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Change the safety position from "O&C" to "C".

Justification for the Requested Change:

These valves have an active safety function in the closed position only. They are Drywell, Containment, or Secondary Containment Isolation valves. They are not required to reopen after receiving an isolation signal nor are they required to, open to support the Standby Gas Treatment System. They fail closed on loss of power and are not supplied with a safety power source since they are not required to reopen.

Reviewed: G. L. Hackman 0945 8/24/94
(IST Engineer / Coordinator / KCN / Date)

Approved: Jay Frobese / 3-29-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-9A	402	HVC	8/29/94	0026	HVAC - CONTROL BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1HVC*MOV1A	3	B	24	BF	MO	O	C	J-12	FSE PI	Q RF		
1HVC*MOV1B	3	B	24	BF	MO	O	C	J-12	FSE PI	Q RF		

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-1B	403	HVR	8/29/94	0028	HVAC CONTAINMENT BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVR*AOV123	2	A	36	BF	AO	C	C	C-11	FSE	Q	59	
							C		FS	Q		
									PI	RF		
									LR	Q		10 CFR 50, APP. J Test
1HVR*AOV125	2	B	24	BF	AO	C	C	C-9	FSE	CS	37	
							C		FS	CS		
									PI	RF		
1HVR*AOV126	2	B	24	BF	AO	C	C	N-18	FSE	CS	37	
							C		FS	CS		
									PI	RF		
1HVR*AOV128	2	A	36	BF	AO	C	C	N-17	FSE	Q	59	
							C		FS	Q		
									PI	RF		
									LR	Q		10 CFR 50, APP. J Test
1HVR*AOV147	2	B	24	BF	AO	C	C	D-9	FSE	CS	37	
							C		FS	CS		
									PI	RF		
1HVR*AOV148	2	B	24	BF	AO	C	C	N-19	FSE	CS	37	
							C		FS	CS		
									PI	RF		

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-1B	403	HVR	8/29/94	0026	HVAC-CONTAINMENT BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVR*AOV165	2	A	36	BF	AO	C	C	D-12	FSE	Q	59	
							C		FS	Q		
									PI	RF		
									LR	Q		10 CFR 50, APP. J Test
1HVR*AOV166	2	A	36	BF	AO	C	C	N-14	FSE	Q	59	
							C		FS	Q		
									PI	RF		
									LR	Q		10 CFR 50, APP. J Test

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-1C	403	HVR	8/29/94	0026	HVAC-CONTAINMENT BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVR*AOD23A	-	B	18X12	DP	AO	O	C	E-10	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVR*AOD23B	-	B	18X12	DP	AO	O	C	D-10	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVR*AOD161	-	B	18X12	DP	AO	O	C	B-12	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-8A	406	HVF	8/29/94	9026	HVAC-FUEL BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVF*AOD102	-	B	30X24	DP	AO	O	C	B-17	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVF*AOD104	-	B	30X24	DP	AO	O	C	F-3	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVF*AOD112	-	B	30X24	DP	AO	O	C	B-16	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVF*AOD137	-	B	30X24	DP	AO	O	C	G-3	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-6B	406	HVF	8/29/94	0026	HVAC-FUEL BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1HVF*AOD101	-	B	36X36	DP	AO	O	C	N-15	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3
1HVF*AOD122	-	B	36X36	DP	AO	O	C C	N-16	FSE FS PI	Q Q RF		Damper, T.S. 4.6.5.3

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
22-1D	409	HVR	8/29/94	0026	HVAC-AUXILIARY BLDG

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1HVR*AOD10A	-	B	30X24	DP	AO	O	C	N-6	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVR*AOD10B	-	B	30X24	DP	AO	O	C	M-6	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVR*AOD143	-	B	36X48	DP	AO	O	C	L-19	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVR*AOD164	-	B	36X48	DP	AO	O	C	M-19	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVR*AOD214	-	B	36X36	DP	AO	O	C	N-13	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVR*AOD249	-	B	30X24	DP	AO	O	C	N-5	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		
1HVR*AOD262	-	B	36X36	DP	AO	O	C	N-13	FSE	Q		Damper, T.S. 4.6.5.3
							C		FS	Q		
									PI	RF		

IST CHANGE REQUEST FORM

ISTCR #: 0027			
Date: August 29, 1994	**Requester:** J. Rogers	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1SWP*V650 & V651	
Affected Pages: Appendix C, page 32 of 105	**STP Change Required** N/A	**Relief Requests:** N/A	**CR's, MR's, MWO's:**

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Change the safety position from "O&C" to "C".

Justification for the Requested Change:

These valves are in the service water to the drywell unit coolers return header piping. The non-class drywell unit coolers are isolated, upon receipt of an automatic or manual containment isolation signal, by valves 1SWP*MOV4A, B and 1SWP*MOV5A, B closing. Check valves V650 and V651 are located upstream of MOV5A, B and are isolated when the MOVs close.

Reviewed: E. C. Hockman 0945 8/29/94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] /629/ 8-29-94
(ISE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-100	118	SWP	8/29/94	0027	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1SWP*V175	3	A/C	12	CK	SA	O	O&C	B-18	FSE LR	CS RF	42	10 CFR 50, APP. J Test
1SWP*V203	3	C	8	CK	SA	C	O	E-18	FSE	RF	11	
1SWP*V204	3	C	8	CK	SA	C	O	C-18	FSE	RF	11	
1SWP*V650	3	C	10	CK	SA	O	C	L-17	FSE	CS	52	
1SWP*V651	3	C	10	CK	SA	O	C	H-17	FSE	CS	52	

IST CHANGE REQUEST FORM

ISTCR #			
0028			
Date: August 29, 1994	**Requester:** J. Rogers	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1SWP*V1086 & V1087	
Affected Pages: Appendix C, page 34 of 105	**STP Change Required** N/A	**Relief Requests:** N/A	**CR's, MR's, MWO's:**

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Change the safety position from "O&C" to "C".

Justification for the Requested Change:

These valves are the air inlet checks for the vacuum release accumulators. The air supply is non-safety and is not credited, therefore there is no safety function for the valves to open to supply air to the accumulators. Accumulator isolation is provided by solenoid valves 1SWP*SOV55A & B. These SOVs are normally open and close automatically if vacuum release solenoids 1SWP*SOV522A-D open or instrument air pressure drops below 100 psig.

Reviewed: L. C. Hockman ANS 8/29/94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] 8-29-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-10F	118	SWP	8/29/94	0028	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SWP*SOV522D	2	A	1	GL	SO	C	O&C	B-12	FSE PI LR	CS RF RF	30	 10 CFR 50, APP. J Test
1SWP*SOV523B	3	B	3/4	GA	SO	C	O&C	N-12	FSE PI	CS RF	30	
1SWP*SOV523D	3	B	3/4	GA	SO	C	O&C	N-11	FSE PI	CS RF	30	
1SWP*SOV552A	3	B	3/4	GL	SO	O	C	B-15	FSE PI	CS RF	30	
1SWP*SOV552B	3	B	3/4	GL	SO	O	C	B-10	FSE PI	CS RF	30	
1SWP*V199	3	C	18	CK	SA	C	O	J-6	FSE	O		
1SWP*V200	3	C	18	CK	SA	C	O	J-3	FSE	O		
1SWP*V1086	3	C	3/4	CK	SA	C	C	B-16	FSE	CS	30	
1SWP*V1087	3	C	3/4	CK	SA	C	C	B-11	FSE	CS	30	
1SWP*V1091	2	C	3/4	CK	SA	C	O	A-17	FSE	CS	30	
1SWP*V1092	2	C	3/4	CK	SA	C	O	B-12	FSE	CS	30	

IST CHANGE REQUEST FORM

ISTCR #: 0029			
Date: August 29, 1994	**Requester:** J. Rogers	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1SWP*V172 & V173; 1SWP*V147, V148, V149 & V150	
Affected Pages: Appendix C, page 31 and 67 of 105; Appendix D, CSJ-27	**STP Change Required** STP-256-3301	**Relief Requests:** CSJ-27	**CR's, MR's, MWO's:** CR 94-0736, CR 94-1131

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

In Appendix D, add valve 1SWP*V173 to CSJ-27; in Appendix C, change Freq. from RF to CS and add 27 to the relief column for V173.

1SWP*V147, V148, V149 & V150 , in Appendix C, change Freq. from RF to CS and add 27 to the relief column (FSE), and add a PSE quarterly

Justification for the Requested Change:

To identify the applicable Cold Shutdown Justification (CSJ-27) and add 1SWP*V173, V147, V148, V149 & V150 to this Justification.

Partial stroke open and full stroke closed the pump discharge check valves quarterly. Full stoke open exercise these check valves at cold shut down.

Reviewed: E. R. Hockman 0495 9/13/94
(IST Engineer / Coordinator / KCN / Date)

Approved: Jay Franklin 0256 9-13-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-100	118	SWP	9/13/94	0029	SERVICE WATER - NORMAL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SWP*MOV507B	3	A	12	GA	MO	O	O&C	D-20	FSE PI LR	Q RF RF	52	10 CFR 50, APP. J Test
1SWP*MOV510A	3	B	12	GA	MO	C	O&C	B-21	FSE PI	RF RF	11	
1SWP*MOV510B	3	B	12	GA	MO	C	O&C	E-21	FSE PI	RF RF	11	
1SWP*MOV511A	3	B	18	BF	MO	O	C	G-1	FSE PI	Q RF		
1SWP*MOV511B	3	B	18	BF	MO	O	C	G-3	FSE PI	Q RF		
1SWP*RV119	3	C	1	RV	SA	C	O&C	B-16	SP	RF3		
1SWP*RV140	2	C	3/4	RV	SA	C	O&C	N-17	SP	RF3		
1SWP*V172	3	C	30	CK	SA	C	O	P-5	FSE	CS	27	
1SWP*V173	3	C	30	CK	SA	C	O	N-5	FSE	CS	27	
1SWP*V174	3	AC	12	CK	SA	O	O&C	D-18	FSE LR	CS RF	42	10 CFR 50, APP. J Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
9-10E	256	SWP	9/13/94	0029	SERVICE WATER - STANDBY

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1SWP*AOV599	3	B	16	BF	AO		O&C	H-16	FSE	Q		MR 92-0012
1SWP*MOV40A	3	B	18	BF	MO	C	O&C	G-10	FSE PI	Q RF		
1SWP*MOV40B	3	B	18	BF	MO	C	O&C	G-6	FSE PI	Q RF		
1SWP*MOV40C	3	B	18	BF	MO	C	O&C	G-9	FSE PI	Q RF		
1SWP*MOV40D	3	B	18	BF	MO	C	O&C	G-7	FSE PI	Q RF		
1SWP*MOV55A	3	B	30	BF	MO	C	O&C	F-16	FSE PI	Q RF		
1SWP*MOV55B	3	B	30	BF	MO	C	O&C	G-15	FSE PI	Q RF		
1SWP*V147	3	C	18	CK	SA	C	O&C	F-10	FSE PSE	CS Q	27	
1SWP*V148	3	C	18	CK	SA	C	O&C	F-9	FSE PSE	CS Q	27	
1SWP*V149	3	C	18	CK	SA	C	O&C	F-6	FSE PSE	CS Q	27	
1SWP*V150	3	C	18	CK	SA	C	O&C	F-7	FSE PSE	CS Q	27	

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 27

COMPONENT	FUNCTION	CLASS	CATEGORY
1SWP*V172 1SWP*V173	These Standby Service Water to normal service water header check valves open to allow SSW pump flow into the supply system piping.	3	C
1SWP*V147 1SWP*V148 1SWP*V149 1SWP*V150	These pump discharge check valves open to allow Standby Service Water pump flow to the discharge header and close to prevent diversion of flow through an idle pump.	3	C

TEST REQUIREMENT

Full stroke exercise open and closed quarterly per IWV-3521 and 3522.

BASIS FOR JUSTIFICATION

These check valves are normally closed since the Standby Service Water pumps are normally in standby with normal service water supplying the plant systems cooling requirements. The pump discharge check valves are part-stroked open and full closed during quarterly pump testing. This testing uses a test loop which does not allow pump full flow. Also, the header check valves are not in the test loop. To test the header check valves open and full flow test the pump discharge check valves would require initiating SSW in the normal flow path. Standby Service Water system temperature is lower than normal service water which will cause a rapid increase in delta T's of unit coolers supplied with normal service water. Exceeding the delta T setpoint on unit cooler 1HVR*UC8 will cause isolation of the MSIVs and a reactor scram. Initiating Standby Service Water in the normal flow path is not practical during power operation.

ALTERNATE TESTING

Part-stroke open and full stroke closed the pump discharge check valves quarterly. Full stroke open exercise test these check valves at cold shutdown.

IST CHANGE REQUEST FORM

ISTCR #: 0030			
Date: September 7, 1994	**Requester:** Jr. Victory	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1E12*MOVF026A & B, 74A & B, 87A & B, 1RHS*V34, V64 & V65, 1E12*RVF101	
Affected Pages: Appendix C, page 42 through 52 of 105	**STP Change Required** Yes	**Relief Requests:** N/A	**CR's, MR's, MWO's:** MR 93-0047, CR 94-1063

Detailed Description of the Requested change:

Delete valves 1E12*MOVF026A & B, 74A & B, 87A & B, 1RHS*V34, V64 & V65 from the program.

Justification for the Requested Change:

1E12*MOVF026A & B: The power has been removed from these valves. They are normally closed and their safety position is closed. The safety function of these components (Steam Condensing) is not allowed by Tech Specs. Since the power has been removed, a situation where the valves could be in the open position does not exist.

1E12 *MOVF074A & B: These valves are for operator convenience and do not have a safety function as defined by the code.

1E12*MOVF087A & B: A blank flange has been installed in the line upstream of these valves and the power has been removed. These valves are normally closed and their safety position is closed , there is not a situation where these valves could be in the open position.

The above valves should be reclassified as "B" Passive and as such are not required to be tested by the code.

1RHS*V34, 1RHS*V64, 1RHS*V65 - the internals were removed from these valves and they should be removed from IST testing, since they no longer perform a safety function (Refer. MR 93-0047).

Reviewed: C. C. Hockman 0945 9-9-94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] 0246 / 9-10-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

IST CHANGE REQUEST FORM (continuation sheet)

ISTCR #: 0030	

Affected component(s):
1E12*MOVF003A, *MOVF004B, *MOVF011A & B, *MOVF021, *MOVF040, *MOVF046A & B, *MOVF047A & B, *MOVF049, *MOVF073A, 1RHS*V240 1E12*VF099A & B; 1E12*VF046A, B &C; 1E12*VF098

Detailed Description of the Requested change(Cont.):

Per CR 94-1063, add valve 1E12*RVF101 to the program.

In Appendix C for the following Valves: 1E12*MOVF003A, *MOVF004B, *MOVF011A & B, *MOVF021, *MOVF040, *MOVF046A & B, *MOVF047A & B, *MOVF049, *MOVF073A change the normal position to O & C.

Add PIV test to the valve table for valve 1RHS*V240

Add "C" under the safety position in the valve table for: 1E12*VF099A & B

Change the safety position from "O" to "O & C" for 1E12*VF046A, B &C and "O & C" to "O" for 1E12*VF098.

Justification for the Requested Change:

Add 1E12*RVF101 per CR 94-1063.

Change to the position for valves 1E12*MOVF003A, *MOVF004B, *MOVF011A & B, *MOVF021, *MOVF040, *MOVF046A & B, *MOVF047A & B, *MOVF049, *MOVF073A is consistent with the basis document

1RHS*V240, this is a 1" check valve and is the first normally closed valve in line 750-351-2(Z-). PIVs are two normally closed valves separating the RPV pressure from a low pressure line. If this valve is not classified as a PIV, 1E12*F008 is the only closed valve separating the RPV pressure from the low pressure line using line 750-351-2(Z-) as the flow path. The valve is tested as a PIV in parallel with 1E12*F009 and would only require the valve tables to be updated with no additional testing.

Change the normal position in Appendix "C" for valves 1E12*VF099A & B to be consistent with the basis document.

Change the safety position in Appendix "C" for valves 1E12*VF046A, B & C and 1E12*VF098 to be consistent with the basis document.

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-7A	204	RHS	9/10/94	0030	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1E12* RVF025A	2	C	1.5	RV	SA	C	O&C	F-16	SP	RF		500 psig
1E12* RVF036	2	C	6	RV	SA	C	O&C	N-12	SP		44	75 psig (not tested)
1E12* RVF055A	2	C	4	RV	SA	C	O&C	K-13	SP			500 psig (not tested)
1E12*AOVF041A	1	AC	10	CK	SA	C	O&C	M-3	FSE	CS	01	Testable Check Valve
									PI	RF		
									LR	RF		RCS Boundary Test
1E12*MOVF003A	2	B	14	GL	MO	O&C	O	L-11	FSE	Q		
									PI	RF		
1E12*MOVF004A	2	A	20	GA	MO	O	O&C	B-17	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF006A	2	B	16	GA	MO	C	O&C	B-11	FSE	Q		
									PI	RF		
1E12*MOVF006B	2	B	16	GA	MO	C	O&C	D-7	FSE	Q		
									PI	RF		
1E12*MOVF008	1	A	18	GA	MO	C	O&C	D-18	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-7A	204	RHS	9/10/94	0030	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (In.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1E12*MOVF009	1	A	18	GA	MO	C	O&C	F-20	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF011A	2	A	4	GL	MO	O&C	C	M-11	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF023	1	A	4	GL	MO	C	O&C	J-20	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF024A	2	A	14	BF	MO	C	O&C	E-18	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF027A	2	A	10	GA	MO	C	O&C	M-6	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF037A	2	A	10	GL	MO	C	O&C	N-5	FSE	CS	21	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-7A	204	RHS	9/10/94	0030	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1E12*MOVF040	2	B	6	GL	MO	O&C	C	N-18	FSE	CS	45	
									PI	RF		
1E12*MOVF042A	1	A	10	GA	MO	C	O&C	M-4	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF047A	2	B	14	GA	MO	O&C	O	H-4	FSE	Q		
									PI	RF		
1E12*MOVF048A	2	B	14	GL	MO	O	O&C	K-15	FSE	Q		
									PI	RF		
1E12*MOVF049	2	B	6	GA	MO	O&C	C	M-19	FSE	CS	45	
									PI	RF		
1E12*MOVF053A	2	A	10	GL	MO	C	O&C	G-18	FSE	CS	1P	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF064A	2	A	4	GA	MO	O	O&C	E-15	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF073A	2	A	2	GL	MO	O&C	C	H-9	FSE	Q		
									PI	RF		
									LR	RF		Water Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-7A	204	RHS	5/10/94	0030	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1E12*VF019	1	C	4	CK	SA	C	O	L-20	FSE	CS	07	
1E12*VF031A	2	C	14	CK	SA	C	O&C	D-14	FSE	Q		
1E12*VF046A	2	C	4	CK	SA	C	O&C	F-15	FSE	Q		
1E12*VF050A	2	C	10	CK	SA	C	C	H-18	FSE	RF	20	
							O		FSE	CS	62	Normal Ops
1E12*VF084A	2	C	1.5	CK	SA	O	C	E-13	FSE	RF	24	Disassembly
							O		FSE	Q		
1E12*VF085A	2	C	1.5	SC	SA	O	C	E-13	FSE	RF	24	Disassembly
							O		FSE	Q		
1E12*VF099A	2	AP	8	GL	MA	C	C	N-5	LR	RF		10 CFR 50, APP. J Test
1RHS*RV3A	2	C	4	RV	SA	C	O&C	J-14	SP			485 psig (not tested)
1RHS*V34	2	N/A	14	N/A	N/A	N/A	N/A	C-18	N/A	N/A		Valve Internals Removed - Not Tested

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-7A	204	RHS	9/10/94	002	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Ref.	
						Normal	Safety					
1RHS*V240	1	AC	1	CK	SA	C	O&C	E-20	FSE	RF	23	
									LR	RF		10CFR50, APP J Test
									LR	RF		RCS Boundary Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-7B	204	RHS	9/10/94	9030	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (In.)	Type	Actuator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E12*AOVF041B	1	AC	10	CK	SA	C	O&C	N-4	FSE	CS	01	Testable Check Valve
									PI	RF		
									LR	RF		RCS Boundary Test
1E12*AOVF098	2	C	10	CK	SA	C	O	G-5	FSE	Q		Testable Check Valve
									PI	RF		
1E12*MOVF003B	2	B	14	GL	MO	O&C	O	E-6	FSE	Q		
									PI	RF		
1E12*MOVF004B	2	A	20	GA	MO	O	O&C	B-19	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF011B	2	A	4	GL	MO	O&C	C	H-7	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF024B	2	A	14	BF	MO	C	O&C	L-7	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF027B	2	A	10	GA	MO	O	O&C	M-1	FSE	Q		
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-7B	204	RHS	9/10/94	0030	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E12*MOVF037B	2	A	10	GL	MO	C	O&C	N-1	FSE	CS	21	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF042B	1	A	10	GA	MO	C	O&C	N-3	FSE	CS	19	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
									LR	RF		RCS Boundary Test
1E12*MOVF047B	2	B	14	GA	MO	O&C	O	F-11	FSE	Q		
									PI	RF		
1E12*MOVF048B	2	B	14	GL	MO	O	O&C	G-9	FSE	Q		
									PI	RF		
1E12*MOVF053B	2	A	10	GL	MO	C	O&C	N-9	FSE	CS	19	
									PI	RF		
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF064B	2	A	4	GA	MO	O	O&C	C-15	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF073B	2	A	2	GL	MO	C	C	F-10	FSE	Q		
									PI	RF		
									LR	RF		Water Test

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-78	204	RHS	9/10/94	0030	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1E12*MOVF094	3	B	10	GA	MO	C	O	G-3	FSE PI	Q RF		
1E12*MOVF096	2	B	10	GA	MO	C	O	G-4	FSE PI	Q RF		
1E12*RVF025B	2	C	1.5	RV	SA	C	O&C	G-15	SP	RF1		500 psig
1E12*RVF055B	2	C	4	RV	SA	C	O&C	H-12	SP			500 psig (not tested)
1E12*VF031B	2	C	14	CK	SA	C	O&C	B-13	FSE	Q		
1E12*VF046B	2	C	4	CK*	SA	C	O&C	D-15	FSE	Q		*
1E12*VF050B	2	C	10	CK	SA	C	C O	N-9	FSE FSE	RF CS	20 62	 Normal Ops
1E12*VF084B	2	C	1.5	CK	SA	O	C O	B-14	FSE FSE	RF Q	24	Disassembly
1E12*VF085B	2	C	1.5	SC	SA	O	C O	B-13	FSE FSE	RF Q	24	Disassembly
1E12*VF099B	2	AP	8	GL	MA	C	C	P-2	LR	RF		10 CFR 50, APP. J Test
1RHS*RV3B	2	C	4	RV	SA	C	O&C	H-12	SP			485 psig (not tested)

Valve ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-78	204	RHS	9/10/94	0030	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-7C	204	RHS	9/10/94	0030	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1E12*AOVF041C	1	AC	10	CK	SA	C	O&C	K-5	FSE	CS	01	Testable Check Valve
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF021	2	A	14	GL	MO	O&C	C	F-8	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF042C	1	A	10	GA	MO	C	O&C	K-3	FSE	CS	19	
									PI	RF		
									LR	RF		RCS Boundary Test
									LR	RF		10 CFR 50, APP. J Test
1E12*MOVF064C	2	A	4	GA	MO	O	O&C	E-10	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*MOVF105	2	A	20	GA	MO	O	O&C	B-20	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1E12*RVF025C	2	C	1.5	RV	SA	C	O&C	G-6	SP	5YR		500 psig
1E12*RVF101	2	C	3/4	RV	SA	C	O&C	J-12	SP	5YR		
1E12*VF031C	2	C	14	CK	SA	C	O&C	D-11	FSE	Q		
1E12*VF046C	2	C	4	CK	SA	C	O&C	E-9	FSE	Q		

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-7C	204	RHS	9/10/94	0030	RHR - LPCI

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1E12*VF084C	2	C	1.5	CK	SA	O	C	E-13	FSE	RF	24	Disassembly
							O		FSE	Q		
1E12*VF085C	2	C	1.5	SC	SA	O	C	E-12	FSE	RF	24	Disassembly
							O		FSE	Q		

IST CHANGE REQUEST FORM

ISTCR #: 0031			
Date: August 9, 1994	**Requester:** Jr. Victory	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1DFR*V181 & V182	
Affected Pages: Appendix C, page103 of 105; Appendix D, CSJ-78	**STP Change Required** N/A	**Relief Requests:** CSJ-78	**CR's, MR's, MWO's:** N/A

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Add Cold Shutdown Justification (CSJ-78) to the program.

Justification for the Requested Change:

CSJ-78 has been initiated to justify testing 1DFR*V181 & V182 at Cold Shutdown instead of Quarterly.

Reviewed: G. C. Hackman 0945 9/9/94
(IST Engineer / Coordinator / KCN / Date)

Approved: Joy Fodrea 0246 / 9-8-94
(ISE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
32-9P	609	DFR	9/10/94	9031	DRAINS-FLOOR & EQUIPMENT

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1DFR*AOV144	2	B	3	GL	AO	O	C	M-3	FSE	Q		
							C		FS	Q		
									PI	RF		
1DFR*AOV145	2	B	3	GL	AO	O	C	D-12	FSE	Q		
							C		FS	Q		
									PI	RF		
1DFR*MOV146	2	A	4	GA	MO	O	O&C	D-11	FSE	Q		
									PI	RF		
									LR	RF		Water Test
1DFR*V181	2	AC	4	CK	SA	C	O&C	C-10	FSE	CS	78	
									LR	RF		Water Test
1DFR*V182	2	AC	4	CK	SA	C	O&C	C-12	FSE	CS	78	
									LR	RF		Water Test

COLD SHUTDOWN JUSTIFICATION REQUEST NO. 78

COMPONENT	FUNCTION	CLASS	CATEGORY
1DFR*V181 1DFR*V182	Containment Sump to Suppression Pool Pumpback Check Valves	2	C

TEST REQUIREMENT: Full stroke exercise open every 3 months per IWV-3521 and IWV-3522.

BASIS FOR JUSTIFICATION: The Containment Sump to Suppression Pool Pumpback Check Valves have an active safety function to open to allow 50 gpm flow from the Containment Sump Pumps to the Suppression Pool to prevent flooding of the electrical equipment in Containment. The valves have an active safety function to close to prevent diversion of opposite train flow and provide Containment Isolation.

Full stroke exercising of these check valves requires passing the maximum required accident condition flow (50 gpm) through the valves. The normal flow path for the pumps is to the Radwaste Processing System. Check valves 1DFR*V181 and 1DFR*V182 are not within the normal flow path. The 50 gpm flowrate can only be achieved by running the Containment Sump Pumps. Quarterly full flow testing of the check valves with the sump pumps would require pumping to the Suppression Pool. This activity would require repeated flushing of the sumps prior to the test to prevent contamination of the Suppression Pool inventory. Flushing the sumps would generate liquid waste that would have to be processed by the Radwaste System. Partial stroke testing of the check valves can be performed quarterly using an alternate clean water source and would not require flushing of the sumps. Performance of full stroke testing at cold shutdown frequency would limit the time required to flush the sumps and the amount of liquid radwaste that would have to be processed.

ALTERNATE TESTING: Partial stroke open exercise quarterly with less than 50 gpm flow.

Full stroke open exercise test (50 gpm) during cold shutdown if not performed within the previous 92 days as allowed by IWV-3412(a) and IWV-3522.

IST CHANGE REQUEST FORM

ISTCR #: 0032			
Date: August 9, 1994	**Requester:** Jr. Victory	**Department:** BCP	**Phone:** X 3632
Issue date and revision of IST Testing Program for Pumps and Valves: RBS 1st Ten Year Interval - IST Plan - Rev. 6 - Issued 1/29/93		**Affected component(s):** 1LSV*PV10A & B; 1LSV*AOV44A & B; 1LSV*V3032A&B; 1LSV*V110AA, V110AB, V110CA, V110CB, V110EA & V110EB	
Affected Pages: Appendix C, pages 64, 65 & 66 of 105;	**STP Change Required** N/A	**Relief Requests:** VRR-24	**CR's, MR's, MWO's:** CR 94-0831, CR 94-0983

Detailed Description of the Requested change:
(Include marked up copies of the IST Program plan or Relief Request if applicable)

Add the listed valves to the program: 1LSV*PV10A/B, AOV44A/B, V3032A/B, V110AA, AB, CA, CB, EA & EB

Jusification for the Requested Change:

Valves PV10A/B are the PVLCS Division I(II) header pressure control valves. They modulate to maintain a constant air supply to the leakage control injection headers. They have a safety function to fail safe to the closed position on loss of control power, providing PVLCS isolation in the event power is lost to the motor operated isolation valves but not to the PVLCS compressor. This prevents the possibility of the running compressor over pressurizing containment.

Valves AOV*44A&B have a safety function in the open direction to relieve excess compressor pressure. They have a safety function in the closed direction to allow the compressor to build up pressure. Proper operation of these valves is required to ensure proper operation of the PVLCS compressors (1LSV*C3A/B).

Valves V3032A/B are the PVLCS compressors 1LSV*C3A/B inlet check valves. They open to allow air into the compressors. These valves are normally closed when the compressors are not running. The compressors automatically start and stop to maintain the accumulators charged.

Reviewed: E.C. Hockman 0945 9/13/94
(IST Engineer / Coordinator / KCN / Date)

Approved: [signature] 0956 9-13-94
(SE Supervisor / KCN / Date)

Once completed, submit to IST Engineer / Coordinator for incorporation into IST Program

IST CHANGE REQUEST FORM (continuation sheet)

ISTCR #: 0032	

Affected component(s) (Cont.):
1LSV*V12, V35, V36, V42, V46, V72 V76 & V90; 1LSV*RV8A/B, 1LSV*V112, V114, V118 & V120

Detailed Description of the Requested change(Cont.):

In Appendix "C" add VRR-24 and "Disassembly for valves: 1LSV*V12, V35, V36, V42, V46, V72 V76 & V90.

1LSV*RV8A/B, change the frequency from RF-2 & 3 to 5YR. 1LSV*V112 and V118 change the Normal position from O to O&C.

1LSV*V114 change the size from 3/4 to 1 and Normal/Safety positions from C to O&C. 1LSV*V120 change the Normal/Safety positions from C to O&C.

Justification for the Requested Change (Cont.):

Valves 1LSV*V110AA, AB, EA & EB have a safety function in the open direction to allow water from the seperator to return to the compressor seal water inlet piping. They have a safety function in the closed direction to prevent the service water seal water from bypassing the compressor and filling the seperator.

Valves 1LSV*V110CA & CB have a safety function in the open direction to allow seal water from the compressor to the separator tank. They have a safety function in the closed direction to prevent water from the separator tank from flowing back to the compressor when the compressor is not running.***

1LSV*V12, V35, V36, V42, V46, V72 V76 & V90 are currently listed for disassembly on VRR-24.

1LSV*RV8A/B, 1LSV*V112, V114, V118 & V120 changes made to Appendix C for these valves are being made to be consistent with the basis document.

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-208	255	LSV	9/13/94	0032	MSIV & PENE. VLV LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1LSV*RV8A	2	C	1X1.5	RV	SA	C	O&C	E-14	SP	6YR		
1LSV*RV8B	2	C	1X1.5	RV	SA	C	O&C	P-14	SP	5YR		
1LSV*SOVX26A	2	B		GL		C	O	E-16	FSE	Q		
							O		FS	Q		
1LSV*SOVX26B	2	B		GL		C	O	P-16	FSE	Q		
							O		FS	Q		
1LSV*SOVY26A	2	B		GL		O	C	E-18	FSE	Q		
						O			FS	Q		
1LSV*SOVY26B	2	B		GL		O	C	P-18	FSE	Q		
						O			FS	Q		
1LSV*V12	2	C	1	CK	SA	C	O&C	H-17	FSE	RF	04, 24	Disassembly
1LSV*V18	2	C	1	CK	SA	C	O&C	F-18	FSE	RF	04	
1LSV*V20	2	C	1	CK	SA	C	O&C	D-8	FSE	RF	04	
1LSV*V22	2	C	1	CK	SA	C	O&C	C-9	FSE	RF	04	
1LSV*V24	2	C	1	CK	SA	C	O&C	A-9	FSE	RF	04	
1LSV*V26	2	C	1	CK	SA	C	O&C	N-6	FSE	RF	04	
1LSV*V28	2	C	1	CK	SA	C	O&C	L-6	FSE	RF	04	
1LSV*V30	2	C	1	CK	SA	C	O&C	J-6	FSE	RF	04	
1LSV*V32	2	C	1	CK	SA	C	O&C	H-6	FSE	RF	04	

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RIVER BEND STATION

INSERVICE TEST PLAN - VALVES
APPENDIX C

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-208	255	LSV	9/13/94	0032	MSIV & PENE. VLV LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Actuator	Position		Dwg. Coord.	Type	Freq.	Relief	
						Normal	Safety					
1LSV*V35	2	C	1	CK	SA	C	O&C	H-17	FSE	RF	04, 24	Disassembly
1LSV*V36	2	C	1	CK	SA	C	O&C	J-14	FSE	RF	04, 24	Disassembly
1LSV*V42	2	C	1	CK	SA	C	O&C	H-17	FSE	RF	04, 24	Disassembly
1LSV*V46	2	C	1	CK	SA	C	O&C	H-17	FSE	RF	04, 24	Disassembly
1LSV*V48	2	C	1	CK	SA	C	O&C	G-17	FSE	RF	04	
1LSV*V50	2	C	1	CK	SA	C	O&C	E-8	FSE	RF	04	
1LSV*V52	2	C	1	CK	SA	C	O&C	C-9	FSE	RF	04	
1LSV*V54	2	C	1	CK	SA	C	O&C	A-9	FSE	RF	04	
1LSV*V56	2	C	1	CK	SA	C	O&C	N-6	FSE	RF	04	
1LSV*V58	2	C	1	CK	SA	C	O&C	M-6	FSE	RF	04	
1LSV*V60	2	C	1	CK	SA	C	O&C	K-6	FSE	RF	04	
1LSV*V62	2	C	1	CK	SA	C	O&C	J-6	FSE	RF	04	
1LSV*V72	2	C	1	CK	SA	C	O&C	K-14	FSE	RF	04, 24	Disassembly
1LSV*V76	2	C	1	CK	SA	C	O&C	K-14	FSE	RF	04, 24	Disassembly
1LSV*V82	2	C	2	CK	SA	C	O	N-12	FSE	Q		

P&ID	System #:	System Alpha:	Page Rev. Date	ISTCR #:	System Name:
27-20B	255	LSV	9/13/94	0032	MSIV & PENE. VLV LEAKAGE CONTROL

VALVE INFORMATION									TEST INFORMATION			REMARKS
Mark Number	Q Class	Cat.	Size (in.)	Type	Act-uator	Position Normal	Position Safety	Dwg. Coord.	Type	Freq.	Relief	
1LSV*V90	2	C	1	CK	SA	C	O&C	K-14	FSE	RF	04, 24	Disassembly
1LSV*V98	2	C	2	CK	SA	C	O	D-12	FSE	Q		
1LSV*V112	2	C	3/4	CK	SA	O&C	C	E-18	FSE	Q		
1LSV*V114	2	C	1	CK	SA	O&C	O&C	D-15	FSE	RF	24	Disassembly
1LSV*V118	2	C	3/4	CK	SA	O&C	C	P-18	FSE	Q		
1LSV*V120	2	C	1	CK	SA	O&C	O&C	N-14	FSE	RF	24	Disassembly
1LSV*PV10A	2	B	2	GA	HYD	O	C	D-12	FSE	Q		
							C		FS	Q		
1LSV*PV10B	2	B	2	GA	HYD	O	C	P-12	FSE	Q		
							C		FS	Q		
1LSV*AOV44A	2	B	3/4	GA	AO	O&C	O&C	D-18	FSE	Q		
1LSV*AOV44B	2	B	3/4	GA	AO	O&C	O&C	M-18	FSE	Q		
1LSV*V3032A	2	C	2	CK	SA	O&C	O	B-19	FSE	Q		
1LSV*3032B	2	C	2	CK	SA	O&C	O	B-19	FSE	Q		
1LSV*V110AA	2	C	1/2	CK	SA	O&C	O&C	B-18	FSE	Q		Disassembly
1LSV*V110AB	2	C	1/2	CK	SA	O&C	O&C	L-18	FSE	Q		Disassembly
1LSV*V110CA	2	C	3/4	CK	SA	O&C	O&C	C-17	FSE	Q		Disassembly
1LSV*V110CB	2	C	3/4	CK	SA	O&C	O&C	M-17	FSE	Q		Disassembly
1LSV*V110EA	2	C	1	CK	SA	O&C	O&C	B-18	FSE	Q		Disassembly
1LSV*V110EB	2	C	1	CK	SA	O&C	O&C	L-18	FSE	Q		Disassembly