

HOPE CREEK GENERATING STATION

PUMP AND VALVE INSERVICE
TESTING PROGRAM

Revision 0

8507170386 850712
PDR ADOCK 05000354
E PDR

SYSTEMS

DRAWING

P & ID

AB	Main Steam & Drains	M-41
AE	Feed Water	M-41 & M-49
AP	Condensate	M-08
BB	Reactor Recirculation	M-41, M-42, M-43
BC	Residual Heat Removal (RHR)(LPCI)	M-51, M-52, M-58
BD	Rx. Core Isolation Cooling (RCIC)	M-49, M50
BE	Core Spray	M-52
BF	Control Rod Drive (CRD)	M-43, M-46, M-47
BG	Rx. Water Cleanup (RWCU)	M-44
BH	Standby Liquid Control (SBLC)	M-48
BJ	High Pressure Coolant Injection (HPCI)	M-55, M56
BN	Demineralized Water	M-08
EA	Service Water	M-10
ED	Reactor	M-13
EE	Torus Water Cleanup	M-53
EG	Safety (Turbine) Auxiliaries Cooling (SACS)	M-10, M-11, M-12
EP	Service Water Screen Wash	M-10
FC	RCIC Steam	M-49, M-50
FD	HPCI Steam	M-55, M-56
GB	Chilled Water	M-87
GH	Aux. Building, HVAC - Radwaste Area	M-66
GJ	Chilled Water	M-90
GP	Primary Containment ILRT/LLRT	M-60
GS	Containment Atmosphere Control	M-57
HB	Liquid Rad. Waste	M-61
JE	Diesel Fuel Oil	M-30
KA	Service Compressed Air	M-15

SYSTEMS

DRAWING

P & ID

KB	Instrument Control Air	M-15
KG	Breathing Air	M-15
KH	Service Gases	M-57
KJ	Diesel Generator	M-30
KL	Containment Instrument Gas	M-59
KP	Main Steam Sealing System	M-72
RC	Post Accident Sampling	M-38
SE	Neutron Monitoring (TIPS)	M-59
SK	Plant Leak Detection	M-25

PUMP TESTING TABLE

RHR Pump A
RHR Pump B
RHR Pump C
RHR Pump D

Core Spray Pump A
Core Spray Pump B
Core Spray Pump C
Core Spray Pump D

ECCS Jockey Pump (HPCI)
ECCS Jockey Pump (RCIC)
ECCS Jockey Pump (RHR A)
ECCS Jockey Pump (RHR B)

Standby Liquid Control Pump A
Standby Liquid Control Pump B

Service Water Pump A
Service Water Pump B
Service Water Pump C
Service Water Pump D

Reactor Core Isolation Cooling Pump

High Pressure Coolant Injection Pumps (2) (Main & Booster)

Chilled Water Pump A
Chilled Water Pump B
Chilled Water Pump C
Chilled Water Pump D

Diesel Fuel Oil Transfer Pump A
Diesel Fuel Oil Transfer Pump B
Diesel Fuel Oil Transfer Pump C
Diesel Fuel Oil Transfer Pump D
Diesel Fuel Oil Transfer Pump E
Diesel Fuel Oil Transfer Pump F
Diesel Fuel Oil Transfer Pump G
Diesel Fuel Oil Transfer Pump H

Safety Auxiliary Cooling Pump A
Safety Auxiliary Cooling Pump B
Safety Auxiliary Cooling Pump C
Safety Auxiliary Cooling Pump D

Service Water Screen Spray Pump A
Service Water Screen Spray Pump B
Service Water Screen Spray Pump C
Service Water Screen Spray Pump D

PUMP TESTING RELIEF REQUESTS

PUMP: Standby Liquid Control Pumps A and B

TEST REQUIREMENT: Perform Inservice Testing every three months.

BASIS FOR RELIEF: Hope Creek's Design complies to 10-CFR50.62 para. C (4) which requires both SLC pumps to be operable in order to deliver 86 GPM. In order to test these pumps, they must be removed from service, the system drained, flushed and aligned to the test tank. In addition, the pump is unavailable since the system does not automatically realign in the event of initiation.

ALTERNATE TESTING: Test during cold shutdowns or refueling outages but not more frequently than every three months.

VALVE TESTING TABLE

Table Heading Key

Valve I.D. - Where Valve I.D.'s are assigned.

NOTE: Instruments; Pressure Safety Relief (PSV-For Pressure and Vacuum Relief) are listed as instrument valves with no Valve I.D.

Operator Number

All Operators are identified by the Instrument I.D. Number.

Valve Class

Coordinates

1 - ASME Nuclear Class 1	XX-YY-ZZ
2 - ASME Nuclear Class 2	XX - M series drawing number
3 - ASME Nuclear Class 3	YY - Sheet number
D - ANSI B31.1	ZZ - Sheet coordinates

Valve Category

Section XI, ASME Code Categories A, B, C, and D Valves.

Valve Type

BF Butterfly	PR Pressure Safety Relief (PSV)
BL Ball	RCK Resilient Discheck
CK Check	RD Rupture Disc
GB Globe	TCK Testable Check
GCK Globe Stop Check	(Manual or Air) GT Gate
	VR Vacuum Breaker (PSV)
	XV Excess Flow Check

VALVE TESTING TABLE (cont'd)

Valve Operators Type

AO Air Operator
HO Hydraulic Operator
MAN Manual Acuation
SOL Solenoid Operation
XP Explosive Actuator

Test Requirements

- A Seat Leak Rate Testing per Section XI, Art. IWV.
- B₁ Valve Requires Exercising
- B₂ Valve is inaccessible during operations and requires local stroke verification.
- B₃ Valve fails open or closed. Fail position to be verified.
- B₄ Valve is power actuated and/or has a closing time limit per FSAR or Tech. Specs. time stroke verification is required.
- B₅ Fast acting valves (≤ 5 secs) - verify stroke time. These valves are not subject to increased test frequency due to 50% change requirement.
- C₁ Check Valve Functional Test Required.
- C₂ Check Valve Reverse Flow Test Required.
- C₃ Pressure & Vacuum Relief Valve Lift Set Test Required.
- D₁ Rupture Disc. - no test required, not of Testable Design. Exempt IAW Section XI.
- D₂ Explosive Actuator Charge Testing Required.

GENERIC VALVE RELIEF REQUESTS

I. Test Requirement: Valves which cannot be tested during normal operation are to be exercised during cold shutdown.

Basis for Relief: Unscheduled cold shutdown would result in the inservice testing activities being on the critical path to plant startup.

Alternate Requirement: Commence testing as soon as the cold shutdown condition is achieved, but not later than 72 hours after shutdown, and continue until complete or the plant is ready to return to power. Completion of all valve testing is not a prerequisite to return to power. Any testing not completed at one shutdown will be performed during any subsequent cold shutdowns that may occur before refueling to as closely as possible meet the Code specified test frequency.

For planned cold shutdowns, where all the valves identified in the IST for testing in cold shutdown mode will be completed, exception to the 72 hour may be taken.

II. Test Requirement: Increase valve exercise test frequency if measured stroke time increases by greater than 50%.

Basis for Relief: For fast acting valves (stroke time ≤ 5 secs), the reaction time of the data takers utilizing a calibrated stopwatch in itself may exceed the 50% change criteria in the code.

Alternate Requirement: Verify stroke time is less than the maximum allowable. Waive the test frequency adjustment requirement for fast acting valves (stroke times ≤ 5 secs).

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
AB 03	3631A	2	41-1-F2	X				26	GT	MO	O	A,B1,B2,B4		
04	3631B	2	41-1-F2	X				26	GT	MO	O	A,B1,B2,B4		
05	3631C	2	41-1-F2	X				26	GT	MO	O	A,B1,B2,B4		
06	3631D	2	41-1-F2	X				26	GT	MO	O	A,B1,B2,B4		
23	F070D	2	41-2-F6	X				2	GB	MO	X	A,B1,B2,B4		
24	F070C	2	41-2-F6	X				2	GB	MO	X	A,B1,B2,B4		
25	F070B	2	41-2-F5	X				2	GB	MO	X	A,B1,B2,B4		
26	F070A	2	41-2-F5	X				2	GB	MO	X	A,B1,B2,B4		
27	F071	2	41-2-E4	X				2	GB	MO	O	A,B1,B2,B4		
28	F022A	1	41-1-F4	X				26	GB	AO	O	A,B1,B2,B3,B4		
29	F022B	1	41-1-F4	X				26	GB	AO	O	A,B1,B2,B3,B4		
30	F022C	1	41-1-F4	X				26	GB	AO	O	A,B1,B2,B3,B4		
31	F022D	1	41-1-F4	X				26	GB	AO	X	A,B1,B2,B3,B4		
32	F028A	1	41-1-F4	X				26	GB	AO	O	A,B1,B2,B3,B4		
33	F028B	1	41-1-F4	X				26	GB	AO	O	A,B1,B2,B3,B4		
34	F028C	1	41-1-F4	X				26	GB	AO	X	A,B1,B2,B3,B4		
35	F028D	1	41-1-F4	X				26	GB	AO	O	A,B1,B2,B3,B4		
39	F016	1	41-1-E4	X				3	GT	MO	X	A,B1,B2,B4		App."J" Tst.
40	F019	1	41-1-E3	X				3	GT	MO	X	A,B1,B2,B4		App."J" Tst.
43		3	41-2-C5			X		1	CK		X	C1,C2		
44		3	41-2-C5			X		1	CK		X	C1,C2		
45		3	41-2-C5			X		1	CK		X	C1,C2		
46		3	41-2-C5			X		1	CK		X	C1,C2		
47		3	41-2-B5			X		1	CK		X	C1,C2		
48		3	41-2-B5			X		1	CK		X	C1,C2		
49		3	41-2-B5			X		1	CK		X	C1,C2		
50		3	41-2-B5			X		1	CK		X	C1,C2		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
51		3	41-1-G4			X		1	CK		X	C1,C2		
52		3	41-1-G4			X		1	CK		X	C1,C2		
53		3	41-1-G4			X		1	CK		X	C1,C2		
54		3	41-1-G4			X		1	CK		X	C1,C2		
55		3	41-1-G3			X		1	CK		X	C1,C2		
56		3	41-1-G3			X		1	CK		X	C1,C2		
57		3	41-1-G3			X		1	CK		X	C1,C2		
58		3	41-1-G3			X		1	CK		X	C1,C2		
59	F067A	1	41-2-D6	X				2	GB	MO	O	A,B1,B2,B4		
60	F067B	1	41-2-D5	X				2	GB	MO	O	A,B1,B2,B4		
61	F067C	1	41-2-D7	X				2	GB	MO	O	A,B1,B2,B4		
62	F067D	1	41-2-D6	X				2	GB	MO	O	A,B1,B2,B4		
109		3	41-2-A5			X		1	RCK		X	C1,C2		
110		3	41-2-B5			X		1	RCK		X	C1,C2		
111		3	41-2-B5			X		1	RCK		X	C1,C2		
112		3	41-2-B5			X		1	RCK		X	C1,C2		
113		3	41-2-B5			X		1	RCK		X	C1,C2		
114		3	41-2-B5			X		1	RCK		X	C1,C2		
AB	F013A	3	41-1-F5			X		8	PR	AO	X	C3		
	F013B	3	41-1-F5			X		8	PR	AO	X	C3		
	F013C	3	41-1-F5			X		8	PR	AO	X	C3		
	F013D	3	41-1-F5			X		8	PR	AO	X	C3		
	F013E	3	41-1-F5			X		8	PR	AO	X	C3		
	F013F	3	41-1-F5			X		8	PR	AO	X	C3		
	F013G	3	41-1-F5			X		8	PR	AO	X	C3		
	F013H	3	41-1-F5			X		8	PR	AO	X	C3		
	F013J	3	41-1-F5			X		8	PR	AO	X	C3		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
	F013K	3	41-1-F5			X		8	PR	AO	X	C3		
	F013L	3	41-1-F5			X		8	PR	AO	X	C3		
	F013M	3	41-1-F5			X		8	PR	AO	X	C3		
	F013P	3	41-1-F5			X		8	PR	AO	X	C3		
	F013R	3	41-1-F5			X		8	PR	AO	X	C3		
	F037A	3	41-1-C5			X		6	VR		X	C3		
	F037B	3	41-1-C5			X		6	VR		X	C3		
	F037C	3	41-1-C5			X		6	VR		X	C3		
	F037D	3	41-1-C5			X		6	VR		X	C3		
	F037E	3	41-1-C5			X		6	VR		X	C3		
	F037F	3	41-1-C5			X		6	VR		X	C3		
	F037G	3	41-1-C5			X		6	VR		X	C3		
	F037H	3	41-1-C5			X		6	VR		X	C3		
	F037J	3	41-1-C5			X		6	VR		X	C3		
	F037K	3	41-1-C5			X		6	VR		X	C3		
	F037L	3	41-1-C5			X		6	VR		X	C3		
	F037M	3	41-1-C5			X		6	VR		X	C3		
	F037P	3	41-1-C5			X		6	VR		X	C3		
AB	F037R	3	41-1-C5			X		6	VR		X	C3		
AB	4500A	3	41-1-C5			X		6	VR		X	C3		
	4500B	3	41-1-C5			X		6	VR		X	C3		
	4500C	3	41-1-C5			X		6	VR		X	C3		
	4500D	3	41-1-C5			X		6	VR		X	C3		
	4500E	3	41-1-C5			X		6	VR		X	C3		
	4500F	3	41-1-C5			X		6	VR		X	C3		
	4500G	3	41-1-C5			X		6	VR		X	C3		
	4500H	3	41-1-C5			X		6	VR		X	C3		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
	4500J	3	41-1-C5			X		6	VR		X	C3		
	4500K	3	41-1-C5			X		6	VR		X	C3		
	4500L	3	41-1-C5			X		6	VR		X	C3		
	4500M	3	41-1-C5			X		6	VR		X	C3		
	4500P	3	41-1-C5			X		6	VR		X	C3		
	4500R	3	41-1-C5			X		6	VR		X	C3		
AB	4504A	3	41-1-G5			X		1	PR		X	C3		
	4504B	3	41-1-G5			X		1	PR		X	C3		
	4504C	3	41-1-G5			X		1	PR		X	C3		
	4504D	3	41-1-G5			X		1	PR		X	C3		
	4504E	3	41-1-G5			X		1	PR		X	C3		
	4504F	3	41-1-G5			X		1	PR		X	C3		
	4504G	3	41-1-G5			X		1	PR		X	C3		
	4504H	3	41-1-G5			X		1	PR		X	C3		
	4504J	3	41-1-G5			X		1	PR		X	C3		
	4504K	3	41-1-G5			X		1	PR		X	C3		
	4504L	3	41-1-G5			X		1	PR		X	C3		
	4504M	3	41-1-G5			X		1	PR		X	C3		
	4504P	3	41-1-G5			X		1	PR		X	C3		
AB	4504R	3	41-1-G5			X		1	PR		X	C3		
	4505A	3	41-1-G4			X		1	PR		X	C3		
	4505B	3	41-1-G4			X		1	PR		X	C3		
	4505C	3	41-1-G4			X		1	PR		X	C3		
	4505D	3	41-1-G4			X		1	PR		X	C3		
AB	4506A	3	41-1-G3			X		1	PR		X	C3		
	4506B	3	41-1-G3			X		1	PR		X	C3		
	4506C	3	41-1-G3			X		1	PR		X	C3		
	4506D	3	41-1-G3			X		1	PR		X	C3		

VALVE NUMBER	I&C ID/OPER NUMBER	C L A S S	CO-ORDINATES	VALVE CATEGORY				S I Z E	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
AE 01	F032B	2	41-1-E8	X		X		24	CK	MO	O	A,B1,B2,B4,C1,C2	Yes	
02	F074B	1	41-1-E7	X		X		24	CK	AO	O	A,B1,B2,B4,C1,C2	Yes	App. "J" Test
03		1	41-1-E7	X		X		24	CK		O	A,C1,C2	Yes	App. "J" Test
05	F032A	2	41-1-D8	X		X		24	CK	MO	O	A,B1,B2,B4,C1,C2	Yes	
06	F074A	1	41-1-D7	X		X		24	CK	AO	O	A,B1,B2,B4,C1,C2	Yes	App. "J" Test
07		1	41-1-D7	X		X		24	CK		O	A,C1,C2	Yes	App. "J" Test
21	F039	2	44-1-H6	X		X		4	CK	MO	O	A,B1,B2,B4,C1,C2	Yes	

RELIEF REQUEST

VALVES: AE-V01, V02, V03, V05, V06, V07, V21

FUNCTION: Feedwater Check Valves

TEST REQUIREMENTS: Exercise every three months or during cold shutdown.

BASIS FOR RELIEF: Confirmation of valve closure for each of the three valve series requires a leak test to be performed. Feedwater flow cannot be interrupted during normal operations and due to extensive preparation such as draining 24" piping and removing reactor water cleanup system from service, performance of these tests are impractical during short duration outages.

ALTERNATE TESTING: Test in conjunction with leak rate testing once every refueling outage.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
AP 75	2072	3	08-2-E6	X				6	GT	MO	O	B1, B4		
136	2073	D	08-2-F7	X				6	GT	MO	X	B1, B4		

VALVE NUMBER	I&C ID/OPER NUMBER	CLAS S	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BAE (S))
				A	B	C	D							
BB 43		2	43-1-C4	X		X		.75	CK	O	A,C1,C2		App. "J" Tst.	
47		2	43-1-B4	X		X		.75	CK	O	A,C1,C2		App. "J" Tst.	
	4310	1	43-1-H4	X		X		.75	GB	X	A,B1,B3,B5		App. "J" Tst.	
	4311	1	43-1-H4	X		X		.75	GB	X	A,B1,B3,B5		App. "J" Tst.	

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
BC 01	F004D	2	51-1-C7	X				24	GT	MO	O	A, B ₁ , B ₄		App. "J" Tst.
02		2	51-1-B5			X		18	CK		X	C ₁ , C ₂		
04	F017D	1	51-1-G7	X				12	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
05	F041D	1	51-1-G7	X		X		12	TCK	AO	X	A, C ₁ , C ₂	Yes	App. "J" Tst.
06	F004B	2	51-1-C7	X				24	GT	MO	O	A, B ₁ , B ₄		App. "J" Tst.
07	F006B	2	51-1-C7		X			18	GT	MO	X	B ₁ , B ₄		
08		2	51-1-C7			X		18	CK		X	C ₁ , C ₂		
10	F047B	2	51-1-D4		X			18	GT	MO	O	B ₁ , B ₄		
11	F003B	2	51-1-D3		X			18	GB	MO	O	B ₁ , B ₄		
13	F015B	1	51-1-F6	X				12	GB	MO	X	A, B ₁ , B ₄		App. "J" Tst.
14	F050B	1	51-1-F7	X		X		12	TCK	MO	X	A, C ₁ , C ₂		App. "J" Tst.
15	F027B	2	51-1-E7	X				6	GB	MO	X	A, B ₁ , B ₄		App. "J" Tst.
16	F017B	1	51-1-F7	X				12	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
17	F041B	1	51-1-F7	X		X		12	TCK	AO	X	A, C ₁ , C ₂	Yes	App. "J" Tst.
18	F016B	2	51-1-G6	X				16	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
19	F021B	2	51-1-G7	X				16	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
20	F023	1	51-1-H7	X				6	GB	MO	X	A, B ₁ , B ₄		App. "J" Tst.
21	F022	1	51-1-H7	X				6	GT	MO	X	A, B ₁ , B ₂ , B ₄		App. "J" Tst.
27	F010B	2	51-1-D5	X				18	GB	MO	X	A, B ₁ , B ₄		App. "J" Tst.
28	F024B	2	51-1-D6	X				18	GB	MO	X	A, B ₁ , B ₄		App. "J" Tst.
30		2	51-1-D6			X		4	TCK		X	C ₁ , C ₂		
31	F007B	2	51-1-D6	X				4	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
33		2	51-1-D5			X		4	TCK		X	C ₁ , C ₂		
34	F007D	2	51-1-D5	X				4	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
38		2	51-1-E3			X		6	TCK		X	C ₁ , C ₂		
39	F075	2	51-1-E3		X			6	GT	MO	X	B ₁ , B ₄		
41	F040	2	51-1-F3		X			4	GT	MO	X	B ₁ , B ₄		
42	F049	2	51-1-F3		X			4	GT	MO	X	B ₁ , B ₄		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
BC 71	F009	1	51-1-E8	X				20	GT	MO	X	A, B ₁ , B ₂ , B ₄		App. "J" Tst.
89		2	51-1-C5			X		1	CK		O	C ₁		
90		2	51-1-C5			X		1	CK		O	C ₁		
98	F004C	2	51-2-C2	X				24	GT	MO	O	A, B ₁ , B ₄		App. "J" Tst.
99		2	51-2-B4			X		18	CK		X	C ₁ , C ₂		
101	F017C	1	51-2-F3	X				12	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
102	F041C	1	51-2-F2	X		X		12	TCK	AO	X	A, C ₁ , C ₂	Yes	App. "J" Tst.
103	F004A	2	51-2-C3	X				24	GT	MO	O	A, B ₁ , B ₄		App. "J" Tst.
104	F006A	2	51-2-B4		X			18	GT	MO	X	B ₁ , B ₄		
105		2	51-2-B4			X		18	CK		X	C ₁ , C ₂		
107	F047A	2	51-2-C5		X			18	GT	MO	O	B ₁ , B ₄		
108	F003A	2	51-2-D6		X			18	GB	MO	O	B ₁ , B ₄		
110	F015A	1	51-2-E3	X				12	GB	MO	X	A, B ₁ , B ₄		App. "J" Tst.
111	F050A	1	51-2-E3	X		X		12	TCK	AO	X	A, C ₁ , C ₂		App. "J" Tst.
112	F027A	2	51-2-D3	X				6	GB	MO	X	A, B ₁ , B ₄		App. "J" Tst.
113	F017A	1	51-2-F3	X		X		12	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
114	F041A	1	51-2-F2	X				12	TCK	AO	X	A, C ₁ , C ₂	Yes	App. "J" Tst.
115	F016A	2	51-2-G6	X				16	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
116	F021A	2	51-2-G3	X				16	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
117	F122A	1	51-2-G3	X				2	GB	AO	X	A, B ₁ , B ₂ , B ₃ , B ₄		App. "J" Tst.
118	F122B	1	51-1-E7	X				2	GB	AO	X	A, B ₁ , B ₂ , B ₃ , B ₄		App. "J" Tst.
119	F146A	1	51-2-F2	X				2	GB	AO	X	A, B ₁ , B ₂ , B ₃ , B ₄		App. "J" Tst.
120	F146B	1	51-2-F2	X				2	GB	AO	X	A, B ₁ , B ₂ , B ₃ , B ₄		App. "J" Tst.
121	F146C	1	51-2-F2	X				2	GB	AO	X	A, B ₁ , B ₂ , B ₃ , B ₄		App. "J" Tst.
122	F146D	1	51-2-F2	X				2	GB	AO	X	A, B ₁ , B ₂ , B ₃ , B ₄		App. "J" Tst.
124	F024A	2	51-2-D4	X				18	GB	MO	X	A, B ₁ , B ₄		App. "J" Tst.
125	F010A	2	51-2-D4	X				18	GB	MO	X	A, B ₁ , B ₄		App. "J" Tst.
127		2	51-2-C4			X		4	TCK		X	C ₁ , C ₂		App. "J" Tst.

RELIEF REQUEST

VALVES: BC-V005, V017, V102, V114

FUNCTION: RHR Testable Check Valves to Reactor Vessel

TEST REQUIREMENTS: Test every three months or during cold shutdown.

BASIS FOR RELIEF: Since the piping upstream of these valves is carbon steel and normally not inservice, to preserve the reactor coolant system water chemistry, it requires that the system be backflushed, which involves extensive system realignment, prior to injection into the vessel.

ALTERNATE TESTING: Exercise valve during refueling outages.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
128	F007A	2	51-2-D4	X				4	GT	MO	O	A, B ₁ , B ₄		App. "J" Tst.
130		2	51-2-D4			X		4	TCK		X	C ₁ , C ₂		
131	F007C	2	51-2-C4	X				4	GT	MO	O	A, B ₁ , B ₄		App. "J" Tst.
164	F008	1	51-1-E6	X				20	GT	MO	X	A, B ₁ , B ₄		App. "J" Tst.
194		2	51-1-C5			X		1	CK		O	C ₁		
195		2	51-1-C5			X		1	CK		O	C ₁		
206		2	51-2-C4			X		1	CK		O	C ₁		
207		2	51-2-B4	X		X		1	CK		O	A, C ₁		App. "J" Tst.
208		2	51-2-B4			X		1	CK		O	C ₁		
210		2	51-2-C4			X		1	CK		O	C ₁		
211		2	51-2-C4			X		1	CK		O	C ₁		
260		2	51-1-D6	X		X		1	CK		O	A, C ₁		App. "J" Tst.
263		1	51-1-H8			X		6	CK		O	C ₁		
308		2	52-1-D3			X		2	CK		O	C ₁		
309		2	52-1-D3			X		2	CK		O	C ₁		
312		2	52-1-D5			X		2	CK		O	C ₁		
313		2	52-1-D5			X		2	CK		O	C ₁		
362	4439	3	51-1-H3		X			4	GT	MO	O	B ₁ , B ₄		
423		3	10-2-B3			X		2	CK		X	C ₁		
427	F048B	2	51-1-E4	X				18	BF	MO	O	B ₁ , B ₄		
520	5055A	2	58-1-C7	X				2	GB	MO	X	B ₁ , B ₄		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
BC 521	5055B	2	58-1-A7		X			2	GB	MO	X	B ₁ ,B ₄		
538	F048A	2	51-2-E5		X			18	BF	MO	O	B ₁ ,B ₄		
BC	F025A	2	51-2-F5			X		1	PR		X	C ₃		
	F025B	2	51-1-G6			X		1	PR		X	C ₃		
	F025C	2	51-2-F5			X		1	PR		X	C ₃		
	F025D	2	51-1-G6			X		1	PR		X	C ₃		
	F029	2	51-1-E6			X		1	PR		X	C ₃		
	F030A	2	51-2-C3			X		1	PR		X	C ₃		
	F030B	2	51-1-C7			X		1	PR		X	C ₃		
	F030C	2	51-2-C2			X		1	PR		X	C ₃		
	F030D	2	51-1-C7			X		1	PR		X	C ₃		
	4425	1	51-1-E8	X		X		1	PR		X	A,C ₃		App."J" Tst.
	4431A	2	51-2-C7			X		.75	PR		X	C ₃		
	4431B	2	51-1-C3			X		.75	PR		X	C ₃		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
BD 01	F010	2	49-1-F3		X			6	GT	MO	O	B ₁ , B ₄		
02		2	49-1-E3			X		6	TCK		X	C ₁ , C ₂		
03	F031	2	49-1-B7	X				6	GT	MO	X	A, B ₁ , B ₄		App."J" Tst.
04		2	49-1-B6			X		6	TCK		X	C ₁ , C ₂		
05	F013	2	49-1-D5	X				6	GT	MO	X	A, B ₁ , B ₄		
06		2	49-1-C4			X		6	CK		X	C ₁		
07	F019	2	49-1-C6	X				2	GB	SOL	X	A, B ₁ , B ₃ , B ₅		App."J" Tst.
10		2	49-1-D4			X		6	CK		X	C ₁ , C ₂		
11	F012	2	49-1-D4		X			6	GT	MO	O	B ₁ , B ₄		
12	F022	2	49-1-E5		X			4	GB	MO	X	B ₁ , B ₄		
22	F046	2	50-1-C6		X			2	GB	MO	X	B ₁ , B ₄		
23		2	50-1-B4			X		2	CK		X	C ₁ , C ₂		
28		2	49-1-D4			X		1	CK		X	C ₁		
29		2	49-1-D4			X		1	CK		X	C ₁		
BD	F017	2	50-1-E6			X		1	PR		X	C ₃		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
BE 02	F006B	1	52-1-F6	X		X		12	TCK	AO	X	A,C1,C2	Yes	App."J" Tst.
03	F005B	1	52-1-F6	X				12	GT	MO	X	A,B1,B4		App."J" Tst.
04	F004B	2	52-1-F5		X			12	GT	MO	O	B1,B4		
06	F006A	1	52-1-F6	X		X		12	TCK	AO	X	A,C1,C2	Yes	App."J" Tst.
07	F005A	1	52-1-F6	X				12	GT	MO	X	A,B1,B4		App."J" Tst.
08	F004A	2	52-1-F5		X			12	GT	MO	O	B1,B4		
13		2	52-1-C5			X		12	CK		X	C1,C2		
14		2	52-1-C4			X		12	CK		X	C1,C2		
15		2	52-1-C3			X		12	CK		X	C1,C2		
16		2	52-1-C2			X		12	CK		X	C1,C2		
17	F001A	2	52-1-B6	X				16	GT	MO	O	A,B1,B4		App."J" Tst.
18	F001C	2	52-1-B7	X				16	GT	MO	O	A,B1,B4		App."J" Tst.
19	F001B	2	52-1-B7	X				16	GT	MO	O	A,B1,B4		App."J" Tst.
20	F001D	2	52-1-B8	X				16	GT	MO	O	A,B1,B4		App."J" Tst.
25	F015A	2	52-1-D6	X				10	GB	MO	X	A,B1,B4		App."J" Tst.
26	F015B	2	52-1-D6	X				10	GB	MO	X	A,B1,B4		App."J" Tst.
28		2	52-1-C5			X		3	TCK		X	C1,C2		
30		2	52-1-C4			X		3	TCK		X	C1,C2		
32		2	52-1-C3			X		3	TCK		X	C1,C2		
34		2	52-1-C3			X		3	TCK		X	C1,C2		
35	F031A	2	52-1-C6	X				4	GB	MO	O	A,B1,B4		App."J" Tst.
36	F031B	2	52-1-C6	X				4	GB	MO	O	A,B1,B4		App."J" Tst.
71	F039A	1	52-1-F7	X				2	GB	AO	X	A,B1,B2,B3,B4		App."J" Tst.
72	F039B	1	52-1-F7	X				2	GB	AO	X	A,B1,B2,B3,B4		App."J" Tst.
BE	F012A	2	52-1-E5			X		2	PR		X	C3		
	F012B	2	52-1-F4			X		2	PR		X	C3		

RELIEF REQUEST

VALVES: BE-V002, V006

FUNCTION: Core Spray Testable Check Valves to Reactor Vessel

TEST REQUIREMENTS: Test every three months or during cold shutdown.

BASIS FOR RELIEF: Since the piping upstream of these valves is carbon steel and normally not inservice, to preserve the reactor coolant system water chemistry, it requires that the system be backflushed, which involves extensive system realignment, prior to injection into the vessei.

ALTERNATE TESTING: Exercise valve during refueling outages.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
	F032A	2	52-1-B6			X		1	PR	X	C3			
	F032B	2	52-1-B5			X		1	PR	X	C3			
	F032C	2	52-1-B4			X		1	PR	X	C3			
	F032D	2	52-1-B3			X		1	PR	X	C3			

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
BF 76	F181	2	47-1-E5	X				2	GB	AO	O	B ₁ , B ₃ , B ₄		
77	F011	2	47-1-E4	X				2	GB	AO	O	B ₁ , B ₃ , B ₄		
83	F180	2	47-1-H4	X				2	GB	AO	O	B ₁ , B ₃ , B ₄		
84	F010	2	47-1-H4	X				2	GB	AO	O	B ₁ , B ₃ , B ₄		
98	3800A	2	43-1-C3	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
99	3800B	2	43-1-B3	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
104	4005	3	46-1-B8	X				8	GT	MO	O	B ₁ , B ₄		
NOTE: The following is typical for 185 HCU'S														
BF 114	PSE 132	2	47-1-C5				X	.75	RD		X	D ₁	Yes	
138		2	47-1-D5		X			.75	CK		O	C ₁	Yes	
		3	47-1-C6		X			.5	CK		O	C ₁	Yes	
BF	XV126	3	47-1-C5	X				.75	GB	AO	X	B ₁ , B ₃ , B ₄	Yes	
	XV127	D	47-1-D5	X				.75	GB	AO	X	B ₁ , B ₃ , B ₄	Yes	

RELIEF REQUEST

VALVES: BF-V114, V138, XV126, XV127 (Typical of 185 HCUs)

FUNCTION: CRD HCU Check Valves and Scram Valves

TEST REQUIREMENTS: Exercise every three months or during cold shutdown.

BASIS FOR RELIEF: Requires control rod movement to demonstrate proper operation. Satisfactory completion of control rod timing is dependent on these valves performing specified functions.

ALTERNATE TESTING: Exercise in conjunction with rod scram timing of control rods in accordance with Technical Specification Surveillance (4.1.3.2.A and C) after each refueling outage and 10% of control rods per 120 days on a rotating bases.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY			SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C							
BG 01	F001	1	44-1-E7	X			6	GT	MO	O	A, B1, B2, B4		App. "J" Tst.
BG 02	F004	1	44-1-E7	X			6	GT	MO	O	A, B1, B4		App. "J" Tst.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
BH 04		2	48-1-D6			X		1.5	CK	X	C1			
05		2	48-1-C6			X		1.5	CK	X	C1			
08	F004A	2	48-1-E7				X	1.5	GT		D2			
09	F004B	2	48-1-C7				X	1.5	GT		D2			
28	F006A	1	48-1-E8		X			1.5	GCK		A, B1, B4, C1, C2	Yes	App. "J" Tst.	
29	F006B	1	48-1-D8		X			1.5	CK		A, C1, C2	Yes	App. "J" Tst.	
54	F029A	2	48-1-D7		X			1.5	GCK		A, B1, B4, C1, C2	Yes	App. "J" Tst.	
BH	F029B	2	48-1-E5			X		1.5	PR	X	C3			
		2	48-1-D5			X		1.5	PR	X	C3			

RELIEF REQUEST

VALVES: BH-V029, V028, V054

FUNCTION: Standby Liquid Control Injection Header Check Valves

TEST REQUIREMENTS: Exercise every three months or during cold shutdown.

BASIS FOR RELIEF: Since the motor operator will not open the valve, to establish design flow through the valve requires the firing of one of the explosive valves in the flow path from the system pumps.

ALTERNATE TESTING: Exercise in conjunction with SLC injection test once per 18 months (Technical Specification Surveillance 4.1.5.D.1).

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
BJ 01	F006	1	55-1-D6	X				14	GT	MO	X	A, B ₁ , B ₂ , B ₄		App."J" Tst.
02	F007	2	55-1-D5		X			14	GT	MO	O	B ₁ , B ₄		
03		2	55-1-D5			X		14	CK		X	C ₁ , C ₂		
05	F004	2	55-1-F4		X			16	GT	MO	O	B ₁ , B ₄		
06		2	55-1-E4			X		16	TCK		X	C ₁ , C ₂		
08		2	55-1-B7			X		16	TCK		X	C ₁		
09	F042	2	55-1-B7	X				16	GT	MO	X	A, B ₁ , B ₄		App."J" Tst.
10	F008	2	55-1-E5		X			10	GB	MO	X	B ₁ , B ₄		
14		1	55-1-E5			X		1	CK		O	C ₁		
15		2	55-1-C4			X		4	TCK		X	C ₁		
16	F012	2	55-1-C6	X				4	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
23		2	55-1-E5			X		1	CK		O	C ₁		
27		2	56-1-B5			X		2	CK		X	C ₁		
28	F059	2	56-1-C5		X			2	GB	MO	X	B ₁ , B ₄		
59	8278	2	55-1-C5	X				8	GT	MO	X	A, B ₁ , B ₄		
500	4803	2	55-1-C6		X			2	GB	MO	O	B ₁ , B ₄		
501	4804	2	55-1-B6		X			2	GB	MO	O	B ₁ , B ₄		
502	4865	2	55-1-B8		X			2	GB	MO	O	B ₁ , B ₄		
503	4866	2	55-1-B8		X			2	GB	MO	O	B ₁ , B ₄		
BJ	F020	2	56-1-F6			X		1.5	PR		X	C ₃		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
BN 07	2069	3	08-2-E5	X				10	GT	MO	X	B1, B4		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
EA 340	F073	3	10-2-B3	X				6	BF	MO	X	B1,B4		
346	2355A	3	10-2-F5	X				24	BF	MO	X	B1,B4		
349	2371A	3	10-2-D5	X				24	BF	MO	O	B1,B4		
352	2355B	3	10-2-F3	X				24	BF	MO	X	B1,B4		
355	2371B	3	10-2-D3	X				24	BF	MO	O	B1,B4		
357	2203	3	10-2-A5	X				30	BF	MO	O	B1,B4		
358	2204	3	10-2-A4	X				30	BF	MO	O	B1,B4		
359		3	10-1-F7			X		28	RCK		O	C1,C2		
361		3	10-1-F5			X		28	RCK		O	C1,C2		
363		3	10-1-F4			X		28	RCK		O	C1,C2		
365		3	10-1-F3			X		28	RCK		O	C1,C2		
377	2357A	3	10-2-H4	X				36	BF	MO	O	B1,B4		
378	2357B	3	10-2-H2	X				36	BF	MO	O	B1,B4		
381	2207	3	10-2-B5	X				24	BF	MO	O	B1,B4		
416	2197A	3	10-1-F7	X				6	BF	MO	X	B1,B4		
417	2197C	3	10-1-F5	X				6	BF	MO	X	B1,B4		
418	2197B	3	10-1-F4	X				6	BF	MO	X	B1,B4		
419	2197D	3	10-1-F2	X				6	BF	MO	X	B1,B4		
450	2356A	3	10-2-G5	X				20	BF	MO	X	B1,B4		
451	2356B	3	10-2-G8	X				20	BF	MO	X	B1,B4	Yes	
452	2346	3	10-2-G6	X				24	BF	MO	O	B1,B4	Yes	
453		3	10-2-H6			X		24	RCK		O	C1		
473	2198A	3	10-1-G7	X				28	BF	MO	X	B1,B4		
474	2198C	3	10-1-G5	X				28	BF	MO	X	B1,B4		
475	2198B	3	10-1-G4	X				28	BF	MO	X	B1,B4		
476	2198D	3	10-1-G3	X				28	BF	MO	X	B1,B4		
543		3	10-3-C5			X		2	CK		X	C1		

RELIEF REQUEST

VALVES: EA-V450, V451

FUNCTION: Service Water Yard Dump Valves

TEST REQUIREMENTS: Exercise every three months or during cold shutdown.

BASIS FOR RELIEF: Prior to stroking these valves, the entire loop must be isolated and partially drained requiring extensive equipment realignment. In addition, rupture discs are installed in parallel with these valves, therefore, the reliability of this system is maintained during the increased surveillance interval.

ALTERNATE TESTING: Exercise during refueling outages.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
544		3	10-3-A8			X		1	RCK		X	C1		
545		3	10-3-A6			X		1	RCK		X	C1		
546		3	10-3-A5			X		1	RCK		X	C1		
547		3	10-3-A4			X		1	RCK		X	C1		
552	2236	3	10-2-B6	X				3	BF	MO	X	B1,B4		
553	2234	3	10-2-A6	X				3	BF	MO	X	B1,B4		
554	2238	3	10-2-A3	X				6	BF	MO	X	B1,B4		
556		3	10-3-C6			X		2	CK		X	C1		
557		3	10-2-B7			X		2	CK		X	C1		
EA	2247A	3	10-3-B7	X				2	GB	SOL.	X	B1,B5		
	2247B	3	10-3-B4	X				2	GB	SOL.	X	B1,B5		
	2247C	3	10-3-B6	X				2	GB	SOL.	X	B1,B5		
	2247D	3	10-3-B3	X				2	GB	SOL.	X	B1,B5		
	2367A	3	10-2-F4	X				2	GB	SOL.	X	B1,B3,B5		
	2367B	3	10-2-F2	X				2	GB	SOL.	X	B1,B3,B5		
	2367C	3	10-2-F4	X				2	GB	SOL.	X	B1,B3,B5		
	2367D	3	10-2-F2	X				2	GB	SOL.	X	B1,B3,B5		
	2351A	3	10-2-F5			X		.75	PR		X	C3		
	2351B	3	10-2-F3			X		.75	PR		X	C3		
EA	2366A	2	10-2-C5			X		.75	PR		X	C3		
	2366B	2	10-2-C3			X		.75	PR		X	C3		
	2210A	3	10-2-G5				X	20	RD		X	D1		
	2210E	3	10-2-G3				X	20	RD		X	D1		

VALVE NUMBER	I&C ID/OPER NUMBER	CLAS	COORDINATES	VALVE CATEGORY			SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C							
ED 03	2598	3	13-1-G2	X			18	BF	MO	O	B1, B4		
04	2599	3	13-1-G2	X			18	BF	MO	O	B1, B4		
19	2553	2	13-1-D5	X			4	GT	MO	O	A, B1, B4		App. "J" Tst.
20	2554	2	13-1-C5	X			4	GT	MO	O	A, B1, B2, B4		App. "J" Tst.
21	2555	2	13-1-D3	X			4	GT	MO	O	A, B1, B4		App. "J" Tst.
22	2556	2	13-1-C3	X			4	GT	MO	O	A, B1, B2, B4		App. "J" Tst.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
EE 01	4679	2	53-2-D5	X				6	GT	MO	X	A, B1, B4		App. "J" Tst.
EE 02	4652	2	53-2-D6	X				6	GT	MO	X	A, B1, B4		App. "J" Tst.
EE 03	4680	2	53-2-B6	X				6	GT	MO	X	A, B1, B4		App. "J" Tst.
EE 04	4681	2	53-2-B6	X				6	GT	MO	X	A, B1, B4		App. "J" Tst.
EE	4674A	3	53-1-C6				X	6	PR			C3		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
EG 03	2491A	3	11-1-F7	X				30	BF	MO	O	B1,B4		
04	2494A	3	11-1-E7	X				30	BF	MO	O	B1,B4		
07	2491B	3	11-1-C7	X				30	BF	MO	O	B1,B4		
08	2494B	3	11-1-B7	X				30	BF	MO	O	B1,B4		
10		3	11-1-G4			X		20	CK		O	C1,C2		
13		3	11-1-E4			X		20	CK		O	C1,C2		
16		3	11-1-D4			X		20	CK		O	C1,C2		
19		3	11-1-C4			X		20	CK		O	C1,C2		
21	2522A	3	11-1-E3	X				30	BF	HO	O	B1,B4		
22	2522B	3	11-1-D3	X				30	BF	HO	X	B1,B4		
23	2512A	3	11-1-G4	X				20	BF	MO	X	B1,B4		
26	2512B	3	11-1-B4	X				20	BF	MO	X	B1,B4		
28	2496A	3	11-1-E8			X		30	BF	MO	O	B1,B4		
29		3	11-3-D4	X				30	CK		O	C1		
30	2496B	3	11-1-D8	X				30	BF	MO	X	B1,B4		
31		3	11-3-D4			X		30	CK		O	C1		
64	2290C	3	11-2-G8	X				3	GT	AO	X	B1,B3,B4		
65	2290A	3	11-2-F8	X				3	GT	AO	X	B1,B3,B4		
66	2293A	3	11-2-D8	X				2	GB	AO	X	B1,B3,B4		
67	2293B	3	11-2-D8	X				2	GB	AO	X	B1,B3,B4		
68	2290B	3	11-2-D8	X				3	GT	AO	X	B1,B3,B4		
69	2290D	3	11-2-B8	X				3	GT	AO	X	B1,B3,B4		
70	2290G	3	11-2-G8	X				3	GT	AO	X	B1,B3,B4		
71	2290E	3	11-2-F8	X				3	GT	AO	X	B1,B3,B4		
72	2292A	3	11-2-E8	X				3	GT	AO	X	B1,B3,B4		
73	2292B	3	11-2-E8	X				3	GT	AO	X	B1,B3,B4		
74	2290F	3	11-2-D8	X				3	GT	AO	X	B1,B3,B4		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
EG 75	2290H	3	11-2-B8	X				3	GT	AO	X	B1,B3,B4		
104	2302A	3	11-2-G6	X				4	GT	AO	X	B1,B3,B4		
105	2302F	3	11-2-F6	X				4	GT	AO	X	B1,B3,B4		
106	2302B	3	11-2-E6	X				4	GT	AO	X	B1,B3,B4		
107	2302C	3	11-2-D6	X				4	GT	AO	X	B1,B3,B4		
108	2302D	3	11-2-C6	X				4	GT	AO	X	B1,B3,B4		
109	2302E	3	11-2-B6	X				4	GT	AO	X	B1,B3,B4		
138	2314A	3	11-2-D4	X				8	BF	MO	O	B1,B4		
139	7921A	3	11-2-C4	X				8	BF	MO	X	B1,B4		
140	2314B	3	11-2-C5	X				8	BF	MO	O	B1,B4		
141	7921B	3	11-2-B4	X				8	BF	MO	X	B1,B4		
142	2325C	3	11-2-G3	X				3	GT	AO	X	B1,B3,B4		
143	2325G	3	11-2-G3	X				3	GT	AO	X	B1,B3,B4		
144	2325A	3	11-2-F3	X				3	GT	AO	X	B1,B3,B4		
145	2325E	3	11-2-E3	X				3	GT	AO	X	B1,B3,B4		
146	2325B	3	11-2-D3	X				3	GT	AO	X	B1,B3,B4		
147	2325F	3	11-2-D3	X				3	GT	AO	X	B1,B3,B4		
148	2325D	3	11-2-C3	X				3	GT	AO	X	B1,B3,B4		
149	2325H	3	11-2-B3	X				8	GT	AO	X	B1,B3,B4		
231	2395A	3	12-1-D7	X				8	BF	AO	X	B1,B3,B4		
233	2395C	3	12-1-D5	X				8	BF	AO	X	B1,B3,B4		
235	2395B	3	12-1-D4	X				8	BF	AO	X	B1,B3,B4		
237	2395D	3	12-1-D2	X				8	BF	AO	X	B1,B3,B4		
238	2398A	3	12-1-D7	X				6	GT	AO	X	B1,B3,B4		
241	2398E	3	12-1-C7	X				6	GT	AO	X	B1,B3,B4		
244	2398C	3	12-1-D6	X				6	GT	AO	X	B1,B3,B4		
247	2398G	3	12-1-C6	X				6	GT	AO	X	B1,B3,B4		
250	2398B	3	12-1-D5	X				6	GT	AO	X	B1,B3,B4		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
EG 253	2398F	3	12-1-C5	X				6	GT	AO	X	B1, B3, B4		
256	2398D	3	12-1-D3	X				6	GT	AO	X	B1, B3, B4		
259	2398H	3	12-1-C3	X				6	GT	AO	X	B1, B3, B4		
378	2520A	3	11-1-F2	X				2	GB	AO	X	B1, B3, B4		
379	2520C	3	11-1-F1	X				2	GB	AO	X	B1, B3, B4		
382	2520B	3	11-1-C2	X				2	GB	AO	X	B1, B3, B4		
383	2520D	3	11-1-E2	X				2	GB	AO	X	B1, B3, B4		
531	2522D	3	11-1-D3	X				30	BF	HO	X	B1, B3, B4		
532	2522C	3	11-1-D3	X				30	BF	HO	O	B1, B3, B4		
544	2317A	3	11-1-D4	X				8	BF	MO	X	B1, B4		
545	2317B	3	11-1-C4	X				8	BF	MO	X	B1, B4		
546	7922A	3	11-1-C4	X				8	BF	MO	X	B1, B4		
547	7922B	3	11-1-B4	X				8	BF	MO	X	B1, B4		
704		3	11-1-G2			X		2	CK		O	C1		
705		3	11-1-G2			X		2	CK		O	C1		
706		3	11-1-C1			X		2	CK		O	C1		
707		3	11-1-B2			X		2	CK		O	C1		
708	2457B	3	11-1-B7	X				20	BF	AO	O	B1, B3, B4		
709	2457A	3	11-1-H7	X				20	BF	AO	O	B1, B3, B4		
714	2496C	3	11-1-E8	X				30	BF	MO	O	B1, B4		
715	2496D	3	11-1-D8	X				30	BF	MO	X	B1, B4		
720	2452A	3	11-2-G5	X				2	GB	MO	O	B1, B4		
721	2452B	3	11-2-F5	X				2	GB	MO	O	B1, B4		
722	2320A	3	11-2-G4	X				2	GB	MO	O	B1, B4		
723	2320B	3	11-2-F4	X				2	GB	MO	O	B1, B4		
724	2453B	3	11-2-F5	X				2	GB	MO	X	B1, B4		
725	2453A	3	11-2-G5	X				2	GB	MO	X	B1, B4		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
EG 726	2321B	3	11-2-F4	X				2	GB	MO	X	B1, B4		
727	2321A	3	11-2-G4	X				2	GB	MO	X	B1, B4		
1032	2446	3	10-2-B7	X				2	GB	MO	X	B1, B4		
1033	2447	3	10-2-B3	X				2	GB	MO	X	B1, B4		
1064	2522F	3	11-1-D2	X				30	BF	HO	O	B1, B4	Yes	
1065	2522E	3	11-1-D2	X				30	BF	HO	O	B1, B4	Yes	
	2266	3	11-3-G6		X			.5	PR		X	C3		
	2409A	3	12-1-E6		X			1	PR		X	C3		
	2409B	3	12-1-E3		X			1	PR		X	C3		
	2409C	3	12-1-E5		X			1	PR		X	C3		
	2409D	3	12-1-E2		X			1	PR		X	C3		
	2490A	3	11-1-G7		X			.75	PR		X	C3		
	2490B	3	11-1-D7		X			.75	PR		X	C3		
	2495A	3	11-1-F7		X			.75	PR		X	C3		
	2495J	3	11-1-C7		X			.75	PR		X	C3		
	2513A	3	11-1-G3		X			.75	PR		X	C3		
	2513B	3	11-1-A3		X			.75	PR		X	C3		
	2519	3	11-3-E6		X			1	PR		X	C3		
	2530A	3	11-2-D4		X			1	PR		X	C3		
	2530B	3	11-2-B4		X			1	PR		X	C3		
	6220A	3	11-2-G3		X			4	PR		X	C3		
	6220B	3	11-2-B3		X			4	PR		X	C3		

RELIEF REQUEST

VALVES: EG-V1064 and EG-V1065

FUNCTION: SACS Supply to TACS

TEST REQUIREMENTS: Exercise every three months or
during cold shutdown.

BASIS FOR RELIEF: Interrupts cooling water to the plant
service air compressors and MG-set fluid
coupling hydraulic oil coolers which are
required to operate the reactor coolant
recirculation pumps.

ALTERNATE TESTING: Exercise during refueling outages.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
EP 01	2225A	3	10-1-D7		X			6	BF	MO	O	B ₁ ,B ₄		
03		3	10-1-D7			X		6	RCK		O	C ₁ ,C ₂		
08	2225C	3	10-1-D6		X			6	BF	MO	O	B ₁ ,B ₄		
10		3	10-1-D6			X		6	RCK		O	C ₁ ,C ₂		
14	2225B	3	10-1-D4		X			6	BF	MO	O	B ₁ ,B ₄		
16		3	10-1-D4			X		6	RCK		O	C ₁ ,C ₂		
21	2225D	3	10-1-D3		X			6	BF	MO	O	B ₁ ,B ₄		
23		3	10-1-D3			X		6	RCK		O	C ₁ ,C ₂		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
FC 01	F007	1	49-1-E6	X				4	GT	MO	O	A,B ₁ ,B ₂ ,B ₄		App."J" Tst.
02	F008	1	49-1-E6	X				4	GT	MO	O	A,B ₁ ,B ₄		App."J" Tst.
03		2	49-1-C4	X		X		10	TCK		X	A,C ₁ ,C ₂		App."J" Tst.
05	F059	2	49-1-C6	X				10	GT	MO	O	A,B ₁ ,B ₄		App."J" Tst.
06	F062	2	49-1-C7	X				3	GT	MO	O	A,B ₁ ,B ₄		App."J" Tst.
07	F084	2	49-1-C8	X				3	GT	MO	O	A,B ₁ ,B ₄		App."J" Tst.
10		2	49-1-C4	X		X		2	CK		X	A,C ₁ ,C ₂		App."J" Tst.
11	F060	2	49-1-B6	X				2	GB	MO	O	A,B ₁ ,B ₄		App."J" Tst.
15	F025	2	49-1-C2		X			2	GB	AO	O	B ₁ ,B ₃ ,B ₄		
16	F026	2	49-1-B2		X			2	GB	AO	O	B ₁ ,B ₃ ,B ₄		
21	F045	2	50-1-E3		X			4	GB	MO	X	B ₁ ,B ₄		
33	F004	2	50-1-B4		X			2	GB	AO	O	B ₁ ,B ₃ ,B ₄		
48	F076	1	49-1-E6	X				2	GB	MO	X	A,B ₁ ,B ₂ ,B ₄		App."J" Tst.
FC	F018	2	50-1-C5			X		1	PR		X	C ₃		
	F033	2	50-1-C3			X		1.5	PR		X	C ₃		
	F063	2	49-1-C7			X		2	VR		X	C ₃		
	F064	2	49-1-C7			X		2	VR		X	C ₃		
FC	D001	2	50-1-E4				X	8	RD		X	D ₁		
	D002	2	50-1-G4				X	8	RD		X	D ₁		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
FD 01	F002	1	55-1-F6	X				10	GT	MO	X	A, B ₁ , B ₂ , B ₄		App."J" Tst.
02	F003	1	55-1-F6	X				10	GT	MO	X	A, B ₁ , B ₄		App."J" Tst.
03	F001	2	55-1-D3		X			10	GT	MO	X	B ₁ , B ₄		
04		2	55-1-C4	X		X		20	TCK		X	A, C ₁ , C ₂		App."J" Tst.
06	F071	2	55-1-C7	X				20	GT	MO	O	A, B ₁ , B ₄		App."J" Tst.
07	F075	2	55-1-C7	X				3	GT	MO	O	A, B ₁ , B ₄		App."J" Tst.
10	F079	2	55-1-C8	X				3	GT	MO	O	A, B ₁ , B ₄		App."J" Tst.
17	F028	2	55-1-C3		X			2	GB	AO	O	B ₁ , B ₃ , B ₄		
18	F029	2	55-1-C3		X			2	GB	AO	O	B ₁ , B ₃ , B ₄		
32		2	56-1-B4			X		2	CK		X	C ₁ , C ₂		
34	F026	2	56-1-B5		X			2	GB	AO	O	B ₁ , B ₃ , B ₄		
35		2	56-1-F3			X		.75	CK		X	C ₁		
38		2	56-1-B4			X		2	CK		X	C ₁		
FD 51	F100	1	55-1-F6	X				2	GB	MO	X	A, B ₁ , B ₂ , B ₄		App."J" Tst.
	F018	2	56-1-C2			X		1.5	PR		X	C ₃		
	F076	2	55-1-C7			X		3	VR		X	C ₃		
	F077	2	55-1-C8			X		3	VR		X	C ₃		
	D003	2	56-1-E4				X	16	RD		X	D ₁		
	D004	2	56-1-G4				X	16	RD		X	D ₁		
	F050	2	56-1-B5			X		1	PR		X	C ₃		

VALVE NUMBER	I&C ID/OPER NUMBER	CLAS	CO-ORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
GB 46	9531A-2	2	87-2-B4	X				8	GT	MO	O	A, B1, B4		App. "J" Tst.
48	9531A-1	2	87-2-B4	X				8	GT	MO	O	A, B1, B4		App. "J" Tst.
70	9531A-3	2	87-2-A4	X				8	GT	MO	O	A, B1, B4		App. "J" Tst.
71	9531A-4	2	87-2-A4	X				8	GT	MO	O	A, B1, B4		App. "J" Tst.
81	9531B-1	2	87-2-B3	X				8	GT	MO	O	A, B1, B2, B4		App. "J" Tst.
82	9531B-2	2	87-2-A3	X				8	GT	MO	O	A, E1, B2, B4		App. "J" Tst.
83	9531B-3	2	87-2-A3	X				8	GT	MO	O	A, B1, B2, B4		App. "J" Tst.
84	9531B-4	2	87-2-A3	X				8	GT	MO	O	A, B1, B2, B4		App. "J" Tst.
103	9532-1	3	87-2-C2		X			10	GT	MO	O	B1, B4		App. "J" Tst.
104	9532-2	3	87-2-C2		X			10	GT	MO	O	B1, B4		App. "J" Tst.
GB	9522A	2	87-2-B3	X			X	1	PR		X	A, C3		App. "J" Tst.
	9522B	2	87-2-A3	X			X	1	PR		X	A, C3		App. "J" Tst.
	9523A	2	87-2-B3	X			X	1	PR		X	A, C3		App. "J" Tst.
	9523B	2	87-2-A3	X			X	1	PR		X	A, C3		App. "J" Tst.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
GH 01	5543	3	66-1-H1		X			3	BF	MO	O	B1, B4		
GH 20	5551	3	66-1-E3		X			3	GT	MO	O	B1, B4		

VALVE NUMBER	I&C ID/OPER NUMBER	CLAS S	COORDINATES	VALVE CATEGORY			SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C							
GJ	9634A	3	90-1-F6			X							
	9634B	3	90-2-F6			X							
	9637A	3	90-1-F3			X							
	9637B	3	90-2-F3			X							
	9652A	3	90-1-A5			X							
	9652B	3	90-2-A5			X							
	9666A	3	90-3-G7			X							
	9666B	3	90-3-B7			X							
	9667A	3	90-3-H4			X							
	9667B	3	90-3-C4			X							
	9668A	3	90-3-H3			X							
	9668B	3	90-3-C3			X							

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
GP 01		2	60-1-D4	X				1	GB	MAN	X	A		App. "J" Tst.
02		2	60-1-D4	X				1	GB	MAN	X	A		App. "J" Tst.
04		2	60-1-C4	X				1	GB	MAN	X	A		App. "J" Tst.
05		2	60-1-C4	X				1	GB	MAN	X	A		App. "J" Tst.
120		2	60-1-E4	X				1	GB	MAN	X	A		App. "J" Tst.
122		2	60-1-E4	X				1	GB	MAN	X	A		App. "J" Tst.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
GS 02	5050A	2	58-1-E8	X				4	GT	MO	X	A,B ₁ ,B ₄		App."J" Tst.
03	5052A	2	58-1-E7	X				4	GT	MO	X	A,B ₁ ,B ₄		App."J" Tst.
04	5050B	2	58-1-B7	X				4	GT	MO	X	A,B ₁ ,B ₄		App."J" Tst.
05	5052B	2	58-1-B7	X				4	GT	MO	X	A,B ₁ ,B ₄		App."J" Tst.
06	5053B	2	58-1-A3	X				6	GT	MO	X	A,B ₁ ,B ₄		App."J" Tst.
07	5054B	2	58-1-A3	X				6	GT	MO	X	A,B ₁ ,B ₄		App."J" Tst.
08	5053A	2	58-1-D2	X				6	GT	MO	X	A,B ₁ ,B ₄		App."J" Tst.
09	4956	2	57-1-D5	X				26	BF	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
10	5054A	2	58-1-C2	X				6	GT	MO	X	A,B ₁ ,B ₄		App."J" Tst.
20	4980	2	57-1-D3	X				24	BF	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
21	4979	2	57-1-D3	X				26	BF	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
22	4958	2	57-1-D4	X				24	BF	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
23	4978	2	57-1-E4	X				6	BF	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
24	4952	2	57-1-F6	X				26	BF	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
25	4951	2	57-1-F7	X				2	GB	MO	X	A,B ₁ ,B ₄		App."J" Tst.
26	4950	2	57-1-G7	X				26	BF	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
27	4962	2	57-1-E7	X				24	BF	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
28	4964	2	57-1-D7	X				24	BF	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
31	4955B	2	57-1-E5	X				2	GB	MO	X	A,B ₁ ,B ₄		App."J" Tst.
32	4983B	2	57-1-E4	X				2	GB	MO	X	A,B ₁ ,B ₄		App."J" Tst.
33	5019B	2	57-1-E5	X				2	GB	MO	X	A,B ₁ ,B ₄		App."J" Tst.
34	4984B	2	57-1-E4	X				2	GB	MO	X	A,B ₁ ,B ₄		App."J" Tst.
38	5031	2	57-1-D3	X				24	BF	AO	X	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
40	4959B	2	57-1-C5	X				2	GB	MO	X	A,B ₁ ,B ₄		App."J" Tst.
41	4965B	2	57-1-C4	X				2	GB	MO	X	A,B ₁ ,B ₄		App."J" Tst.
42	4966B	2	57-1-C5	X				2	GB	MO	X	A,B ₁ ,B ₄		App."J" Tst.
43	5022B	2	57-1-C4	X				2	GB	MO	X	A,B ₁ ,B ₄		App."J" Tst.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
GS 45	4955A	2	57-1-E6	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
46	4983A	2	57-1-E8	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
47	5019A	2	57-1-E6	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
48	4984A	2	57-1-E8	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
49	4959A	2	57-1-C6	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
50	4965A	2	57-1-C7	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
51	4966A	2	57-1-C7	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
52	5022A	2	57-1-C7	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
53	4974	2	57-1-F5	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
54		2	57-1-E5			X		1	CK		X	C ₁		
55		2	57-1-D4			X		1	CK		X	C ₁		
76	4963	2	57-1-E7	X				2	GB	MO	X	A, B ₁ , B ₄		App."J" Tst.
80	5029	2	57-1-D7	X				24	BF	AO	X	A, B ₁ , B ₃ , B ₄		App."J" Tst.
81		2	57-1-D7			X		1	CK		X	C ₁ , C ₂		
93		2	57-1-C2			X		1	CK		X	C ₁ , C ₂		
119	5741A	2	57-1-G3		X			2	GB	MO	X	B ₁ , B ₄		
135	5741B	2	57-1-G4		X			2	GB	MO	X	B ₁ , B ₄		
138		2	57-1-C2			X		1	CK		X	C ₁ , C ₂		
139		2	58-1-D7			X		1	CK		X	C ₁ , C ₂		
150	5057A	2	58-1-D7		X			2	GB	MO	X	B ₁ , B ₄		
GS 151	5057B	2	58-1-D7	X				2	GB	MO	X	A, B ₁ , B ₄		
GS	4946A	2	57-1-C5	X		X		12	VR	AO	X	A, B ₁ , B ₂ , C ₁ , C ₂ , C ₃		
	4946B	2	57-1-C5	X		X		12	VR	AO	X	A, B ₁ , B ₂ , C ₁ , C ₂ , C ₃		
	4946C	2	57-1-C5	X		X		12	VR	AO	X	A, B ₁ , B ₂ , C ₁ , C ₂ , C ₃		
	4946D	2	57-1-C5	X		X		12	VR	AO	X	A, B ₁ , B ₂ , C ₁ , C ₂ , C ₃		
	4946E	2	57-1-C5	X		X		12	VR	AO	X	A, B ₁ , B ₂ , C ₁ , C ₂ , C ₃		
	4946F	2	57-1-C5	X		X		12	VR	AO	X	A, B ₁ , B ₂ , C ₁ , C ₂ , C ₃		

VALVE NUMBER	I&C ID/OPER NUMBER	CLAS S	COORDI-NATES	VALVE CATEGORY				S I Z E	VALVE TYPE	ACTU-ATOR TYPE	NORMAL POSI-TION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
GS	4946G	2	57-1-C5	X				12	VR	AO	X	A,B1,B2,C1,C2,C3		
	4946H	2	57-1-C5	X				12	VR	AO	X	A,B1,B2,C1,C2,C3		
	5030	2	57-1-C7	X				24	VR	AO	X	A,B1,C1,C2,C3		
	5032	2	57-1-C3	X				24	VR	AO	X	A,B1,C1,C2,C3		
GS	5745A-1	2	57-1-G3			X		1	PR		X	C3		App."J" Tst.
	5745A-2	2	57-1-G3			X		1	PR		X	C3		App."J" Tst.
	5745B-1	2	57-1-G3			X		1	PR		X	C3		
	5745B-2	2	57-1-G3			X		1	PR		X	C3		
	6292A	2	57-1-D7			X		1	PR		X	C3		
	6292B	2	57-1-C3			X		1	PR		X	C3		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
HB 05	F003	2	61-1-H6	X				3	GT	MO	O	A,B1,B2,B4		App."J" Tst.
06	F004	2	61-1-H6	X				3	GT	MO	O	A,B1,B4		App."J" Tst.
45	F019	2	61-2-G7	X				3	GT	MO	O	A,B1,B2,B4		App."J" Tst.
46	F020	2	61-2-G6	X				3	GT	MO	O	A,B1,B4		App."J" Tst.
47	5275	D	61-2-G2		X			4	GT	MO	O	B1,B4		
48	5262	D	61-1-G2		X			4	GT	MO	O	B1,B4		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
JE 01		3	30-1-B7			X		2	CK		X	C1		
02		3	30-1-C7			X		2	CK		X	C1		
03		3	30-1-C4			X		2	CK		X	C1		
04		3	30-1-D4			X		2	CK		X	C1		
05		3	30-1-D5			X		2	CK		X	C1		
06		3	30-1-D5			X		2	CK		X	C1		
07		3	30-1-B2			X		2	CK		X	C1		
08		3	30-1-C2			X		2	CK		X	C1		
95		3	30-1-F7			X		2	CK		X	C1		V95,V96,V97 and V98 Internals to be removed per Start-up change request M-114.
96		3	30-1-F4			X		2	CK		X	C1		
97		3	30-1-F6			X		2	CK		X	C1		
98		3	30-1-F2			X		2	CK		X	C1		
121		3	30-1-F7			X		2	CK		X	C1	Yes	
122		3	30-1-F4			X		2	CK		X	C1	Yes	
123		3	30-1-F5			X		2	CK		X	C1	Yes	
124		3	30-1-F2			X		2	CK		X	C1	Yes	
JE	7792A	3	30-1-H8			X			PR		X		Yes	
	7792B	3	30-1-H5			X			PR		X		Yes	
	7792C	3	30-1-H7			X			PR		X		Yes	
	7792D	3	30-1-H3			X			PR		X		Yes	

RELIEF REQUEST

VALVES: JE-V121, V122, V123, and V124

FUNCTION: Diesel Generator Fuel Oil Injector Leakage
Return Check Valves

TEST REQUIREMENTS: Normally closed check valves shall be exercised to demonstrate that they will permit flow adequate for the function of the valve.

BASIS FOR RELIEF: There are no means for testing these valves independent of operating the diesel engine. The diesel engine is tested per technical specification every 30 days. During this testing, the valve is indirectly observed to operate to the extent that it does not interfere with the operation of the diesel engine.

ALTERNATE TESTING: Successful completion of the monthly Technical Specification Surveillance of the diesel generators.

RELIEF REQUEST

VALVES: JE-7792A, 7792B, 7792C, 7792D

FUNCTION: Diesel Fuel Oil Storage Tank Pressure Relief Valves

TEST REQUIREMENTS: Perform lift set test on pressure relief valves.

BASIS FOR RELIEF: These valves are lift check valves and oriented such that the valve will open if the tank pressure exceeds the force due to the weight of the disc.

ALTERNATE TESTING: Perform visual inspection and preventive maintenance on the valve in place of lift set testing. The frequency will be in accordance with the code for lift set testing.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
KA 28	7626	3	15-4-A2		X			3	GT	MO	O	B1, B4		App. "J" Test
38		2	15-4-B3	X				3	GT	MAN.	X	A		App. "J" Test
39		2	15-4-B3	X				3	GT	MAN.	X	A		App. "J" Test

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
KB 13	7629	3	15-2-F1	X				3	GT	MO	O	B1, B4	Yes	

RELIEF REQUEST

VALVES: KB-V013

FUNCTION: Secondary Containment Isolation Valve
Providing Control Air to Reactor
Building and Containment

TEST REQUIREMENTS: Exercise every three months or during cold shutdown.

BASIS FOR RELIEF: Without extensive preparations such as system
realignment and defeating of system interlocks,
interruption of control air will impact the
operations of the SACS System making components
in the spent fuel pool cooling and the demineralizers
in the reactor water cleanup systems inoperable.

ALTERNATE TESTING: Exercise during refueling outages.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASS	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
KG 09	7801	3	15-1-A4	X				4	GT	MO	O	B1, B4		
16		2	15-1-B6	X				2	GB	MAN.	O	A		App. "J" Test
34		2	15-1-B6	X				3	GT	MAN.	O	A		App. "J" Test

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
KH 01 5035		3	57-1-G4	X				6	GT	AO	X	B1, B4		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
KJ	7786A	3	30-3-67			X			PR		X	C3		
	7786B	3	30-3-G4			X			PR		X	C3		
	7786C	3	30-3-G6			X			PR		X	C3		
	7786D	3	30-3-G2			X			PR		X	C3		
	7553A	3	30-3-*			X			PR		X	C3		
	7553B	3	30-3-*			X			PR		X	C3		
	7553C	3	30-3-*			X			PR		X	C3		
	7553D	3	30-3-*			X			PR		X	C3		
	7553E	3	30-3-*			X			PR		X	C3		
	7553F	3	30-3-*			X			PR		X	C3		
	7553G	3	30-3-*			X			PR		X	C3		
	7553H	3	30-3-*			X			PR		X	C3		
* Skid mounted equipment. See P&ID for reference vendor drawing.														

VALVE NUMBER	I&C ID/OPER NUMBER	CLAS S	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
KL 01	5148	2	59-1-D3	X				2	GB	MO	O	A,B ₁ ,B ₂ ,B ₄		App."J" Tst.
02	5147	2	59-1-D3	X				2	GB	MO	O	A,B ₁ ,B ₄		App."J" Tst.
03	5160A	2	59-1-D4		X			2	GB	MO	X	B ₁ ,B ₄		
04	5160B	2	59-1-C4		X			2	GB	MO	X	B ₁ ,B ₄		
05		2	59-1-D7			X		1	CK		O	C ₁		
06		2	59-1-B7			X		1	CK		O	C ₁		
09	5156B	2	59-1-G5		X			2	GB	AO	O	B ₁ ,B ₃ ,B ₄		
10	5156A	2	59-1-F5		X			2	GB	AO	O	B ₁ ,B ₃ ,B ₄		
18	5154	2	59-1-B3	X				2	GB	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
19	5155	2	59-1-B3	X				2	GR	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
23		2	59-1-F3			X		2	CK		O	C ₁		
24		2	59-1-G3			X		2	CK		O	C ₁		
25	5126B	2	59-1-G3	X				2	GB	MO	O	A,B ₁ ,B ₄		App."J" Tst.
26	5152B	2	59-1-G2	X				2	GB	MO	O	A,B ₁ ,B ₂ ,B ₄		App."J" Tst.
27	5126A	2	59-1-F3	X				2	GB	MO	O	A,B ₁ ,B ₄		App."J" Tst.
28	5152A	2	59-1-F3	X				2	GB	MO	O	A,B ₁ ,B ₂ ,B ₄		App."J" Tst.
49	5162	2	59-1-C3	X				2	GB	MO	O	A,B ₁ ,B ₄		App."J" Tst.
182	5124B	2	59-2-C4		X			2	GB	MO	O	B ₁ ,B ₂ ,B ₄		
184	5124A	2	59-2-C6		X			2	GB	MO	O	B ₁ ,B ₂ ,B ₄		
193	6057	2	72-1-D8		X			2	GB	AO	X	B ₁ ,B ₃ ,B ₄		
195	5172B	2	59-1-H3		X			2	GB	MO	X	B ₁ ,B ₄		
196	5172A	2	59-1-G3		X			2	GB	MO	X	B ₁ ,B ₄		
217		2	59-1-D7			X		2	CK		O	C ₁		
219		2	59-1-B7			X		2	CK		O	C ₁		
KL	5127A	2	59-1-F7			X		1	PR		X	C ₃		
	5127B	2	59-1-G7			X		1	PR		X	C ₃		
	5135A	2	59-1-C5			X		1	PR		X	C ₃		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
KL	5135B	2	59-1-A5			X		1	PR		X	C3		
	5136A	2	59-1-D6			X		1	PR		X	C3		
	5136B	2	59-1-B6			X		1	PR		X	C3		
223		2	59-1-D7			X		2	CK		O	C1		
224		2	59-1-B7			X		2	CK		O	C1		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
KP 06	5829A	2	72-1-E6		X			2	GB	MO	X	B1,B2,B4		
07	5837A	1	72-1-E5	X				2	GB	MO	X	A,B1,B2,B4		App."J" Tst.
08	5836A	1	72-1-E5	X				2	GB	MO	X	A,B1,B2,B4		App."J" Tst.
09	5835A	1	72-1-F6	X				2	GB	MO	X	A,B1,B2,B4		App."J" Tst.
10	5834A	1	72-1-F6	X				2	GB	MO	X	A,B1,B2,B4		App."J" Tst.
11		2	72-1-B5			X		2	CK		X	C1		
12	5829B	2	72-1-B6		X			2	GB	MO	X	B1,B2,B4		
13	5837B	2	72-1-B4	X				2	GB	MO	X	A,B1,B2,B4		
14	5836B	2	72-1-B5	X				2	GB	MO	X	A,B1,B2,B4		
15	5835B	2	72-1-C5	X				2	GB	MO	X	A,B1,B2,B4		
16	5834B	2	72-1-C5	X				2	GB	MO	X	A,B1,B2,B4		
17		2	72-1-F6			X		2	CK		X	C1		
18		2	72-1-F6			X		2	CK		X	C1		
19		2	72-1-E5			X		2	CK		X	C1		
20		2	72-1-E5			X		2	CK		X	C1		
21		2	72-1-C5			X		2	CK		X	C1		
22		2	72-1-C5			X		2	CK		X	C1		
23		2	72-1-C5			X		2	CK		X	C1		
42	6055A	2	72-1-D7		X			2	GB	AO	X	B1,B2,B3,B4		
43	6055B	2	72-1-C7		X			2	GB	AO	X	B1,B2,B3,B4		
KP	5832A	2	72-1-E7			X		1	PR		X	C3		
	5832B	2	72-1-B7			X		1	PR		X	C3		

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
RC	0643A	2	38-1-B7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0643B	2	38-1-B7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0645A	2	38-1-F7		X			1	GB	SOL	X	B1,B3,B5		
	0645B	2	38-1-F7		X			1	GB	SOL	X	B1,B3,B5		
	0646A	2	38-1-E7		X			1	GB	SOL	X	B1,B3,B5		
	0646B	2	38-1-E7		X			1	GB	SOL	X	B1,B3,B5		
	0707A	2	38-2-F7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0707B	2	38-2-F7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0728A	2	38-2-F7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0728B	2	38-2-F7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0729A	2	38-2-E7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0729B	2	38-2-E7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0730A	2	38-2-C7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0730B	2	38-2-C7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0731A	2	38-2-C7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	0731B	2	38-2-C7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	8903A	2	38-1-G7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.
	8903B	2	38-1-G7	X				1	GB	SOL	X	A,B1,B3,B5		App."J" Tst.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
SE 04	5161	2	59-1-D3	X				2	GB	AO	O	A,B ₁ ,B ₃ ,B ₄		App."J" Tst.
06		2	59-1-D3	X		X		.37	CK		O	A,C ₁ ,C ₂		App."J" Tst.
21	J004B-1	2	59-1-E3				X	.37	GT	XP	X	D ₂		
22	J004B-2	2	59-1-E3				X	.37	GT	XP	X	D ₂		
23	J004B-3	2	59-1-E3				X	.37	GT	XP	X	D ₂		
24	J004B-4	2	59-1-E3				X	.37	GT	XP	X	D ₂		
25	J004B-5	2	59-1-E3				X	.37	GT	XP	X	D ₂		
26	J004A-1	2	59-1-E3	X				.37	BL	SOL	O	A,B ₁ ,B ₃ ,B ₅		App."J" Tst.
27	J004A-2	2	59-1-E3	X				.37	BL	SOL	O	A,B ₁ ,B ₃ ,B ₅		App."J" Tst.
28	J004A-3	2	59-1-E3	X				.37	BL	SOL	O	A,B ₁ ,B ₃ ,B ₅		App."J" Tst.
29	J004A-4	2	59-1-E3	X				.37	BL	SOL	O	A,B ₁ ,B ₃ ,B ₅		App."J" Tst.
30	J004A-5	2	59-1-E3	X				.37	BL	SOL	O	A,B ₁ ,B ₃ ,B ₅		App."J" Tst.

VALVE NUMBER	I&C ID/OPER NUMBER	CLASSIFICATION	COORDINATES	VALVE CATEGORY				SIZE	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST REQUIREMENTS	RELIEF REQUEST	REMARKS (NOT TO BE USED FOR RELIEF BASIS)
				A	B	C	D							
SK 05	5018	2	25-1-F4	X				2	GB	MO	O	A,B ₁ ,B ₄		App. "J" Tst.
06	4953	2	25-1-F3	X				2	GB	MO	O	A,B ₁ ,B ₄		App. "J" Tst.
08	4957	2	25-1-F3	X				2	GB	MO	O	A,B ₁ ,B ₄		App. "J" Tst.
09	49 ^a 1	2	25-1-F4	X				2	GB	MO	O	A,B ₁ ,B ₄		App. "J" Tst.