

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

STEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V232

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL A INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-119 (Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS: N/A

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

STEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V233

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL A INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-119 (Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V239

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2

COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL B INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-120(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, FIG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V240

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL B INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-120(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

STEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V246

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2

COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL C INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-121(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK IST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V247

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL C INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-121(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V252

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL D INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-122(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

STEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V253

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2

COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL CHANNEL D INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-122 (Q)
TIME OPEN	NO	N/A	N	N/A
IME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK IST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SAFETY AUXILIARIES COOLING (SACS)

VALVE NO: 1-EG-V1167

VALVE TYPE: CHECK

SIZE: 1.5

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 3

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-11-1 SHEET: 3

COORDINATES: C8

FUNCTION: CLOSSES TO PREVENT FLOW DIVERSION FROM SACS A LOOP.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4HC-171.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SAFETY AUXILIARIES COOLING (SACS)

VALVE NO: 1-EG-V1168

VALVE TYPE: CHECK

SIZE: 1.5

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 3

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-11-1 SHEET: 3

COORDINATES: A8

FUNCTION: CLOSURES TO PREVENT FLOW DIVERSION FROM SACS B LOOP.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EG-102(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4HC-171.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SAFETY AUXILIARIES COOLING (SACS)

VALVE NO: 1-EG-V1169

VALVE TYPE: CHECK

SIZE: 1.5

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 3

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-11-1 SHEET: 3

COORDINATES: C7

FUNCTION: CLOSSES TO PREVENT FLOW DIVERSION FROM SACS A LOOP.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	N/A	N/A	N	N/A
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	O	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4HC-171.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SAFETY AUXILIARIES COOLING (SACS)

VALVE NO: 1-EG-V1170

VALVE TYPE: CHECK

SIZE: 1.5

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 3

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-11-1 SHEET: 3

COORDINATES: A7

FUNCTION: CLOSSES TO PREVENT FLOW DIVERSION FROM SACS B LOOP.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EG-102(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: N/A

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4HC-171.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SAFETY AUXILIARIES COOLING (SACS)

VALVE NO: N/A

VALVE TYPE: EXCESS FLOW CHK

SIZE: 2.0

OPER. NO: 1-EG- XV-1163

ACTUATOR TYPE: SELF

NUC. CLASS: 3

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-11-1 SHEET: 3

COORDINATES: C5

FUNCTION: ISOLATES SACS DEMIN FROM SACS A LOOP IN EVENT OF DEMIN LINE BREAK

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4HC-171.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SAFETY AUXILIARIES COOLING (SACS)

VALVE NO: N/A

VALVE TYPE: EXCESS FLOW CHK

SIZE: 2.0

OPER. NO: 1-EG- XV-1164

ACTUATOR TYPE: SELF

NUC. CLASS: 3

CATEGORY: C

ACTIVE

NORMAL POSITION: OPFN

DRAWING: M-11-1 SHEET: 3

COORDINATES: A5

FUNCTION: ISOLATES SACS DEMIN FROM SACS B LOOP IN EVENT OF DEMIN LINE BREAK

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EG-102(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4HC-171.

REV 1: CORRECTED FUNCTION FROM SACS LOOP "A" TO LOOP "B".

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL

VALVE NO: 1-GS-V201

VALVE TYPE: BUTTERFLY

SIZE: 12.0

OPER. NO: 1-GS- HV-11541

ACTUATOR TYPE: AIR

NUC. CLASS: 2

CATEGORY: A PASSIVE NORMAL POSITION: CLOSED

DRAWING: M-57-1 SHEET: 1

COORDINATES: F7

FUNCTION: CONTAINMENT ISOLATION VALVE, P219.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	YES 2 YR	TYPE C GAS TESTED.	N	SS-IS.ZZ-010(Q)
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS: APPENDIX J TESTED.

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3121, PKG 2.
APPENDIX J TEST PER NRC GENERIC LETTER 89-04, POSITION 10.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: MAIN STEAM SEALING SYSTEM

VALVE NO: N/A

VALVE TYPE: RELIEF

SIZE: 1.0

OPER. NO: 1-KP-PSV-5950A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-72-1 SHEET: 1

COORDINATES: E7

FUNCTION: OVER PRESSURE PROTECTION FOR MSIV SEALING A HEADER.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	YES 5 YR	N/A	N	MD-GP.ZZ-085(Q) OR VENDOR PROC
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS: N/A

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4HE-0011, PKG 1.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: MAIN STEAM SEALING SYSTEM

VALVE NO: N/A

VALVE TYPE: RELIEF

SIZE: 1.0

OPER. NO: 1-KP-PSV-5950B

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-72-1 SHEET: 1

COORDINATES: B7

FUNCTION: OVER PRESSURE PROTECTION FOR MSIV SEALING B HEADER.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	YES 5 YR	N/A	N	MD-GP.ZZ-085(Q) OR VENDOR PROC
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4HE-0011, PKG 2.

REVISION 00

ATTACHMENT # 2

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM
SECTION 5 - REQUESTS FOR RELIEF

RELIEF REQUEST NO. V-10

COMPONENT(S): 1-KJ- SV-7534A
1-KJ- SV-7534B
1-KJ- SV-7534C
1-KJ- SV-7534D

FUNCTION: Maintain proper Emergency Diesel Generator
lube oil reservoir level.

TEST REQUIREMENT: Subsubarticles IWV-3300, IWV-3413 and IWV-3415
require exercising power operated valves, and
fail safe testing every 3 months; and observing
appropriate indicators every 2 years.

BASIS FOR RELIEF: The lube oil reservoir level is verified on a
monthly (or more frequent) basis during the
surveillance operability testing of the
Emergency Diesel Generators per HCGS Technical
Specification 4.8.1.1.2. Specifically
testing these valves would increase the level
of the reservoir until a level change is
observed by the instrumentation, and then
require the manual draining of the sump back
down to waste barrels.

Relief is therefore requested from these Code
requirements.

ALTERNATE TESTING: Operability is verified by satisfactory
completion of the Emergency Diesel Generator
surveillance testing on a monthly or more
frequent interval when tested pursuant to HCGS
Technical Specification 4.8.1.1.2.

Proper operation of the valves is verified by
observation of adequate reservoir level, at
the increased interval.

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: DIESEL GENERATOR

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 0.5

OPER. NO: 1-KJ- SV-7534A

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-30-1 SHEET: 3
COORDINATES: D7

FUNCTION: OPENS TO ALLOW LUBE OIL MAKEUP.

CLOSES TO PREVENT LUBE OIL RESERVOIR OVERFLOW.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.KJ-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.KJ-101(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-101(Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-101(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.KJ-101(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: CORRECTED VALVE TYPE. ADDED TIME OPEN & CLOSE MAX STROKE TIME, PROCEDURE NUMBER AND FREQUENCY. CHANGED FAIL SAFE, EXERCISE OPEN & CLOSE FREQUENCY AND PROCEDURE NUMBER.
REV 2: DELETED RELIEF REQUESTS V-10 AND V-11. CHANGED TIME OPEN, TIME CLOSE, EXERCISE OPEN, EXERCISE CLOSE AND RPIV PROCEDURE FROM MD-GP.ZZ-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: DIESEL GENERATOR

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 0.5

OPER. NO: 1-KJ- SV-7534B

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-30-1 SHEET: 3
COORDINATES: F5

FUNCTION: OPENS TO ALLOW LUBE OIL MAKEUP.
CLOSES TO PREVENT LUBE OIL RESERVOIR OVERFLOW.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.KJ-102(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.KJ-102(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-102(Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-102(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.KJ-102(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: CORRECTED VALVE TYPE. ADDED TIME OPEN & CLOSE MAX STROKE TIME, PROCEDURE NUMBER AND FREQUENCY. CHANGED FAIL SAFE, EXERCISE OPEN & CLOSE FREQUENCY AND PROCEDURE NUMBER.
REV 2: DELETED RELIEF REQUESTS V-10 AND V-11. CHANGED TIME OPEN, TIME CLOSE, EXERCISE OPEN, EXERCISE CLOSE AND RPIV PROCEDURE FROM MD-GP.ZZ-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: DIESEL GENERATOR

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 0.5

OPER. NO: 1-KJ- SV-7534C

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-30-1 SHEET: 3

COORDINATES: F6

FUNCTION: OPENS TO ALLOW LUBE OIL MAKEUP.

CLOSES TO PREVENT LUBE OIL RESERVOIR OVERFLOW.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.KJ-103(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.KJ-103(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-103Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-103(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.KJ-103(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: CORRECTED VALVE TYPE. ADDED TIME OPEN & CLOSE MAX STROKE TIME, PROCEDURE NUMBER AND FREQUENCY. CHANGED FAIL SAFE, EXERCISE OPEN & CLOSE FREQUENCY AND PROCEDURE NUMBER. REV 2: DELETED RELIEF REQUESTS V-10 AND V-11. CHANGED TIME OPEN, TIME CLOSE, EXERCISE OPEN, EXERCISE CLOSE AND RPIV PROCEDURE FROM MD-GP.ZZ-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: DIESEL GENERATOR

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 0.5

OPER. NO: 1-KJ- SV-7534D

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-30-1 SHEET: 3

COORDINATES: F3

FUNCTION: OPENS TO ALLOW LUBE OIL MAKEUP.

CLOSES TO PREVENT LUBE OIL RESERVOIR OVERFLOW.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.KJ-104(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.KJ-104(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-104(Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-104(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.KJ-104(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: CORRECTED VALVE TYPE. ADDED TIME OPEN & CLOSE MAX STROKE TIME, PROCEDURE NUMBER AND FREQUENCY. CHANGED FAIL SAFE, EXERCISE OPEN & CLOSE FREQUENCY AND PROCEDURE NUMBER. REV 2: DELETED RELIEF REQUESTS V-10 AND V-11. CHANGED TIME OPEN, TIME CLOSE, EXERCISE OPEN, EXERCISE CLOSE AND RPIV PROCEDURE FROM MD-GP.ZZ-100(Q).

REVISION 02

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM
SECTION 5 - REQUESTS FOR RELIEF

RELIEF REQUEST NO. V-11

COMPONENT(S):	1-BC- SV-F074	1-EG- SV-2288-1
	1-EA- SV-2235	1-EG- SV-2288-2
	1-EA- SV-2237	1-KJ- SV-7534A
	1-EA- SV-2239	1-KJ- SV-7534B
	1-EG- SV-2281-1	1-KJ- SV-7534C
	1-EG- SV-2281-2	1-KJ- SV-7534D

FUNCTION: Fast acting solenoid valves

TEST REQUIREMENT: Subsubarticle IWV-3413 requires full stroke timing of power operated valves, and further states that full stroke time is that time interval from initiation of the actuating signal to the end of the actuating cycle.

BASIS FOR RELIEF: These valves are fast acting (or direct acting) solenoid valves that are not designed with any local or remote indication or other means to permit the stroke time test with any degree of accuracy or repeatability.

Relief is therefore requested from this Code requirement.

ALTERNATE TESTING: These valves will be exercised in accordance with IWV-3412 and fail safe tested in accordance with IWV-3415.

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 1

OPER. NO: 1-BC- SV-F074

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-10-1 SHEET: 2
COORDINATES: B3

FUNCTION: PREVENT FLOW DIVERSION FROM EMERGENCY RHR CROSSOVER AND SACS B
MAKEUP.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EA-102(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.EA-102(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.EA-102(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: ADDED TIME CLOSE MAX STROKE TIME, PROCEDURE NUMBER
AND REQUIRED FREQUENCY.

REV 2: DELETED RELIEF REQUEST V-11. CHANGED TIME CLOSE
PROCEDURE FROM MD-GP.2Z-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SERVICE WATER

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 1

OPER. NO: 1-EA- SV-2235

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-10-1 SHEET: 2
COORDINATES: B6

FUNCTION: PREVENT FLOW DIVERSION FROM SACS A MAKEUP.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EA-101(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	MD-GP.ZZ-100(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.EA-101(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: ADDED TIME CLOSE MAX STROKE TIME, PROCEDURE NUMBER
AND REQUIRED FREQUENCY.
REV 2: DELETED RELIEF REQUEST V-11.

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SERVICE WATER

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 1

OPER. NO: 1-EA- SV-2237

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-10-1 SHEET: 2

COORDINATES: B6

FUNCTION: PREVENT FLOW DIVERSION FROM SACS A MAKEUP.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EA-101(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	MD-GP.ZZ-100(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.EA-101(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: ADDED TIME CLOSE MAX STROKE TIME, PROCEDURE NUMBER
AND REQUIRED FREQUENCY.

REV 2: DELETED RELIEF REQUEST V-11.

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SERVICE WATER

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 1

OPER. NO: 1-EA- SV-2239

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-10-1 SHEET: 2

COORDINATES: B3

FUNCTION: PREVENT FLOW DIVERSION FROM EMERGENCY RHR CROSSOVER AND SACS B
MAKEUP.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EA-102(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.EA-102(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.EA-102(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: ADDED TIME CLOSE MAX STROKE TIME, PROCEDURE NUMBER
AND REQUIRED FREQUENCY.
REV 2: DELETED RELIEF REQUEST V-11. CHANGED TIME CLOSE
PROCEDURE FROM MD-GP.ZZ-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SAFETY AUXILIARIES COOLING (SACS)

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 1

OPER. NO: 1-EG- SV-2281-1 ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B ACTIVE NORMAL POSITION: AUTO

DRAWING: M-11-1 SHEET: 3
COORDINATES: H6

FUNCTION: OPENS AND CLOSES TO MAINTAIN REQUIRED LEVEL IN SACS SUPPLY SIDE
ACCUMULATOR.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.EG-101(Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.EG-101(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: ADDED TIME OPEN AND TIME CLOSE MAX STROKE TIME,
PROCEDURE NUMBER AND REQUIRED FREQUENCY.
REV 2: DELETED RELIEF REQUEST V-11. CHANGED TIME OPEN AND
TIME CLOSE PROCEDURE FROM MD-GP.22-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SAFETY AUXILIARIES COOLING (SACS)

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 1

OPER. NO: 1-EG- SV-2281-2

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: AUTO

DRAWING: M-11-1 SHEET: 3

COORDINATES: G5

FUNCTION: OPENS AND CLOSES TO MAINTAIN REQUIRED LEVEL IN SACS SUPPLY SIDE
ACCUMULATOR.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.EG-101(Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.EG-101(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: ADDED TIME OPEN AND TIME CLOSE MAX STROKE TIME,
PROCEDURE NUMBER AND REQUIRED FREQUENCY.
REV 2: DELETED RELIEF REQUEST V-11. CHANGED TIME OPEN AND
TIME CLOSE PROCEDURE FROM MD-GP.ZZ-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SAFETY AUXILIARIES COOLING (SACS)

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 1

OPER. NO: 1-EG- SV-2288-1

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B ACTIVE NORMAL POSITION: AUTO

DRAWING: M-11-1 SHEET: 3

COORDINATES: E6

FUNCTION: OPENS AND CLOSSES TO MAINTAIN REQUIRED LEVEL IN SACS RETURN SIDE
ACCUMULATOR.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.EG-101(Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.EG-101(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: ADDED TIME OPEN AND TIME CLOSE MAX STROKE TIME,
PROCEDURE NUMBER AND REQUIRED FREQUENCY.
REV 2: DELETED RELIEF REQUEST V-11. CHANGED TIME OPEN AND
TIME CLOSE PROCEDURE FROM MD-GP.ZZ-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SAFETY AUXILIARIES COOLING (SACS)

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 1

OPER. NO: 1-EG- SV-2288-2 ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B ACTIVE NORMAL POSITION: AUTO

DRAWING: M-11-1 SHEET: 3
COORDINATES: E5

FUNCTION: OPENS AND CLOSES TO MAINTAIN REQUIRED LEVEL IN SACS RETURN SIDE
ACCUMULATOR.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.EG-101(Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.EG-101(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.EG-101(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: ADDED TIME OPEN AND TIME CLOSE MAX STROKE TIME,
PROCEDURE NUMBER AND REQUIRED FREQUENCY.
REV 2: DELETED RELIEF REQUEST V-11. CHANGED TIME OPEN AND
TIME CLOSE PROCEDURE FROM MD-GP.22-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: DIESEL GENERATOR

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 0.5

OPER. NO: 1-KJ- SV-7534A

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-30-1 SHEET: 3

COORDINATES: D7

FUNCTION: OPENS TO ALLOW LUBE OIL MAKEUP.

CLOSES TO PREVENT LUBE OIL RESERVOIR OVERFLOW.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.KJ-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.KJ-101(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-101(Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-101(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.KJ-101(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: CORRECTED VALVE TYPE. ADDED TIME OPEN & CLOSE MAX STROKE TIME, PROCEDURE NUMBER AND FREQUENCY. CHANGED FAIL SAFE, EXERCISE OPEN & CLOSE FREQUENCY AND PROCEDURE NUMBER. REV 2: DELETED RELIEF REQUESTS V-10 AND V-11. CHANGED TIME OPEN, TIME CLOSE, EXERCISE OPEN, EXERCISE CLOSE AND RPIV PROCEDURE FROM MD-GP.22-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: DIESEL GENERATOR

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 0.5

OPER. NO: 1-KJ- SV-7534B

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-30-1 SHEET: 3

COORDINATES: F5

FUNCTION: OPENS TO ALLOW LUBE OIL MAKEUP.
CLOSES TO PREVENT LUBE OIL RESERVOIR OVERFLOW.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.KJ-102(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.KJ-102(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-102(Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-102(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.KJ-102(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: CORRECTED VALVE TYPE. ADDED TIME OPEN & CLOSE MAX STROKE TIME, PROCEDURE NUMBER AND FREQUENCY. CHANGED FAIL SAFE, EXERCISE OPEN & CLOSE FREQUENCY AND PROCEDURE NUMBER.
REV 2: DELETED RELIEF REQUESTS V-10 AND V-11. CHANGED TIME OPEN, TIME CLOSE, EXERCISE OPEN, EXERCISE CLOSE AND RPIV PROCEDURE FROM MD-GP.ZZ-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: DIESEL GENERATOR

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 0.5

OPER. NO: 1-KJ- SV-7534C

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-30-1 SHEET: 3

COORDINATES: F6

FUNCTION: OPENS TO ALLOW LUBE OIL MAKEUP.

CLOSES TO PREVENT LUBE OIL RESERVOIR OVERFLOW.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.KJ-103(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.KJ-103(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-103Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-103(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.KJ-103(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: CORRECTED VALVE TYPE. ADDED TIME OPEN & CLOSE MAX STROKE TIME, PROCEDURE NUMBER AND FREQUENCY. CHANGED FAIL SAFE, EXERCISE OPEN & CLOSE FREQUENCY AND PROCEDURE NUMBER. REV 2: DELETED RELIEF REQUESTS V-10 AND V-11. CHANGED TIME OPEN, TIME CLOSE, EXERCISE OPEN, EXERCISE CLOSE AND RPIV PROCEDURE FROM MD-GP.ZZ-100(Q).

REVISION 02

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: DIESEL GENERATOR

VALVE NO: N/A

VALVE TYPE: GLOBE

SIZE: 0.5

OPER. NO: 1-KJ- SV-7534D

ACTUATOR TYPE: SOLENOID

NUC. CLASS: 3

CATEGORY: B

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-30-1 SHEET: 3

COORDINATES: F3

FUNCTION: OPENS TO ALLOW LUBE OIL MAKEUP.

CLOSES TO PREVENT LUBE OIL RESERVOIR OVERFLOW.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.KJ-104(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.KJ-104(Q)
TIME OPEN	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-104(Q)
TIME CLOSE	YES 3 MO	MAX. TIME 2.0 SEC.	N	OP-IS.KJ-104(Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES 3 MO	N/A	N	OP-IS.KJ-104(Q)
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: FAST ACTING SOLENOID.

CHANGES: REV 01: CORRECTED VALVE TYPE. ADDED TIME OPEN & CLOSE MAX STROKE TIME, PROCEDURE NUMBER AND FREQUENCY. CHANGED FAIL SAFE, EXERCISE OPEN & CLOSE FREQUENCY AND PROCEDURE NUMBER. REV 2: DELETED RELIEF REQUESTS V-10 AND V-11. CHANGED TIME OPEN, TIME CLOSE, EXERCISE OPEN, EXERCISE CLOSE AND RPIV PROCEDURE FROM MD-GP.ZZ-100(Q).

REVISION 02

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM
SECTION 5 - REQUESTS FOR RELIEF

RELIEF REQUEST NO. V-18 (SHEET 1 of 3)

COMPONENT(S):

1-AP-V003	1-BE-V028
1-AP-V005	1-BE-V030
1-BC-V030	1-BE-V032
1-BC-V033	1-BE-V034
1-BC-V038	1-BJ-V006
1-BC-V127	1-BJ-V008
1-BC-V130	1-BJ-V015
1-BD-V002	1-FC-V003
1-BD-V004	1-FD-V004

KEYWORD: MODIFIED CHECK VALVE

FUNCTION: Open to permit ECCS and ESF system flow

TEST REQUIREMENT: Subsubarticle IWV-3522(b) requires, in part, that the force or torque delivered to the disk by a mechanical exerciser must be limited to less than 10% of the equivalent force or torque represented by the minimum emergency condition pressure differential acting on the disk, or to 200% of the actual observed force or torque required to perform the exercise on the valve when the valve is new and in good operating condition, whichever is less; when the exercise test is performed without flow thru the valve.

BASIS FOR RELIEF: These valves were originally designed as testable check valves, with the manual actuator lever directly coupled to the disk by set screws on the hinge point of the disk to the hinge pin shaft, and through to the lever.

Prior to plant operation, a modification was made to these valves by our site engineering organization in conjunction with the valve manufacturer that removed the set screw, milled a recess in the disk at the hinge point, and provided a dog which is secured onto the shaft. Additionally, a plate was provided outside of the valve, which was bolted to the body of the valve in a position that represented the neutral position of the manual test lever.

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM
SECTION 5 - REQUESTS FOR RELIEF

RELIEF REQUEST NO. V-18 (SHEET 2 of 3)

BASIS FOR RELIEF: (Cont'd.)

This modification resolved the initial problem where the shaft packing would tend to hold the valve in the open position whether flow was in the forward or reverse direction.

The modification changed the testable feature of the valve so that the disk was free to swing on the hinge pin (shaft) without rotating the shaft or moving the manual lever, provided the lever was lockwired in the neutral position. This modification also permits the valve to be exercised, without flow, by means of the manual lever.

This is accomplished by removal of the lockwire, manually moving the lever from the neutral position until the dog meets with the disk, and then to continue the rotation until the disk is opened to the position required to fulfill its function. The lever is then returned to the neutral position and lockwired back to the plate with wires and seals.

The requirement for measurement of torque or force is not applicable to these valves because they work as simple swing check valves when the lever is lockwired in the neutral position. When the lever is used and the dog is against the disk, there isn't any rotational movement between the disk hinge point and the hinge pin. The forces to be measured are shaft friction from the packing gland, running friction between the shaft and its bearing seat, and the moment due to the weight of the disk; all of which do not affect the ability of the disk to perform its function.

The rotational movement between the disk hinge point and the hinge pin shaft is verified when the lever is rotated from the neutral position to the point where the dog contacts the disk, which demonstrates freedom of motion. Our procedures require that the valve be declared inoperable and corrective action be initiated if the lever does not move freely when exercised.

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM
SECTION 5 - REQUESTS FOR RELIEF

RELIEF REQUEST NO. V-18 (SHEET 3 of 3)

BASIS FOR RELIEF: (Cont'd.)

This position is conservative in that corrective action is initiated regardless of whether the lack of free movement is ultimately determined to be due to excessive friction in the packing gland, at the shaft seat, or relative motion between the shaft and disk. Positive movement of the disk to the position required to fulfill its function within the valve body is verified by continued rotation of the lever. Any degradation, mechanical binding, or obstruction within the valve would prohibit the lever arm from moving to its full stroke position.

Excessive wear between the hinge pin and the disk hinge point could not be detected by force or torque measurements whether or not the valve was modified, and this will be checked when the valve is disassembled for maintenance.

Relief is therefore requested from the torque measurement requirements because these measurements would not provide any measure of operational degradation for this type of valve as modified.

ALTERNATE TESTING: These valves will be exercised with the manual exercise lever. Specific test instructions have been developed for the performance of this test, and the operator training modules have been revised to incorporate the new modified check valve testing instructions.

Additionally, provisions have been made for a spare modified check valve to be available for training.

The affected inservice testing procedures are being revised to incorporate the new specific test instructions.

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: CONDENSATE STORAGE & TRANSFER

VALVE NO: 1-AP-V003

VALVE TYPE: MODIFIED CHECK

SIZE: 10

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-55-1 SHEET: 1

COORDINATES: E5

FUNCTION: OPENS TO PERMIT RPV PRESSURE CONTROL.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.BJ-101(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: CONDENSATE STORAGE & TRANSFER

VALVE NO: 1-AP-V005

VALVE TYPE: MODIFIED CHECK

SIZE: 4

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-49-1 SHEET: 1

COORDINATES: E5

FUNCTION: OPENS TO PERMIT RPV PRESSURE CONTROL.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.BD-101(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NO: 1-BC-V030

VALVE TYPE: MODIFIED CHECK

SIZE: 4

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-51-1 SHEET: 1

COORDINATES: D6

FUNCTION: PERMIT MIN. FLOW RECIRC FOR RHR PUMP B PROTECTION.
PREVENT FLOW DIVERSION FROM RHR PUMP D.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 1100 GPM T.S. 3.3.3-2,2.d	N	OP-IS.BC-102(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.BC-102(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NO: 1-BC-V033

VALVE TYPE: MODIFIED CHECK

SIZE: 4

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-51-1 SHEET: 1

COORDINATES: C5

FUNCTION: PERMIT MIN. FLOW RECIRC FOR RHR PUMP D PROTECTION.
PREVENT FLOW DIVERSION FROM RHR PUMP B.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 1100 GPM T.S. 3.3.3-2,2.d	N	OP-IS.BC-104(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.BC-104(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NO: 1-BC-V038

VALVE TYPE: MODIFIED CHECK

SIZE: 6

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-51-1 SHEET: 1

COORDINATES: E3

FUNCTION: FIRE OR SERVICE WATER INJECTION TO RHR FOR ULTIMATE PLANT
PROTECTION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.BC-102(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NO: 1-BC-V127

VALVE TYPE: MODIFIED CHECK

SIZE: 4

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-51-1 SHEET: 2

COORDINATES: D4

FUNCTION: PREVENT FLOW DIVERSION FROM RHR PUMP C.
PERMITS MIN. FLOW RECIRC FOR RHR PUMP A PROTECTION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 1100 GPM T.S. 3.3.3-2,2.d	N	OP-IS.BC-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.BC-101(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NO: 1-BC-V130

VALVE TYPE: MODIFIED CHECK

SIZE: 4

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-51-1 SHEET: 2

COORDINATES: D4

FUNCTION: PREVENT FLOW DIVERSION FROM RHR PUMP A.
PERMITS MIN. FLOW RECIRC FOR RHR PUMP C PROTECTION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 1100 GPM T.S. 3.3.3-2,2.d	N	OP-IS.BC-103(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.BC-103(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR CORE ISOLATION COOLING

VALVE NO: 1-BD-V002

VALVE TYPE: MODIFIED CHECK

SIZE: 6

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-49-1 SHEET: 1

COORDINATES: E3

FUNCTION: OPEN TO PERMIT RCIC SUCTION FROM CST.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 600 GPM T.S. 4.7.4.b.	N	OP-IS.BD-101(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR CORE ISOLATION COOLING

VALVE NO: 1-BD-V004

VALVE TYPE: MODIFIED CHECK

SIZE: 6

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-49-1 SHEET: 1

COORDINATES: A6

FUNCTION: OPENS TO PERMIT RCIC SUCTION FROM TORUS.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 600 GPM T.S. 4.7.4.b.	N	OP-IS.BD-101(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: CORE SPRAY

VALVE NO: 1-BE-V028

VALVE TYPE: MODIFIED CHECK

SIZE: 3

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-52-1 SHEET: 1
COORDINATES: C5

FUNCTION: PROVIDE CORE SPRAY PUMP A MIN. FLOW PROTECTION
PREVENT CORE SPRAY PUMP C FLOW DIVERSION

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 650 GPM T.S. 3.3.3-2,1.d	N	OP-IS.BE-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.BE-101(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: CORE SPRAY

VALVE NO: 1-BE-V030

VALVE TYPE: MODIFIED CHECK

SIZE: 3

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-52-1 SHEET: 1

COORDINATES: C4

FUNCTION: PROVIDE CORE SPRAY PUMP C MIN. FLOW PROTECTION.
PREVENT CORE SPRAY PUMP A FLOW DIVERSION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 650 GPM T.S. 3.3.3-2,1.d	N	OP-IS.BE-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.BE-101(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: CORE SPRAY

VALVE NO: 1-BE-V032

VALVE TYPE: MODIFIED CHECK

SIZE: 3

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-52-1 SHEET: 1

COORDINATES: C3

FUNCTION: PROVIDE CORE SPRAY PUMP B MIN. FLOW PROTECTION.
PREVENT CORE SPRAY PUMP D FLOW DIVERSION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 650 GPM T.S. 3.3.3-2,1.d	N	OP-IS.BE-102(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.BE-102(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: CORE SPRAY

VALVE NO: 1-BE-V034

VALVE TYPE: MODIFIED CHECK

SIZE: 3

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-52-1 SHEET: 1

COORDINATES: C3

FUNCTION: PROVIDE CORE SPRAY PUMP D MIN. FLOW PROTECTION
PREVENT CORE SPRAY PUMP B FLOW DIVERSION

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 650 GPM T.S. 3.3.3-2,1.d	N	OP-IS.BE-102(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.BE-102(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: HIGH PRESSURE COOLANT INJECTION

VALVE NO: 1-BJ-V006

VALVE TYPE: MODIFIED CHECK

SIZE: 16

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-55-1 SHEET: 1

COORDINATES: E3

FUNCTION: OPENS TO PERMIT HPCI PUMP SUCTION FROM CST.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 5600 GPM T.S. 4.5.1.b.3.	N	OP-IS.BJ-101(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: HIGH PRESSURE COOLANT INJECTION

VALVE NO: 1-BJ-V008

VALVE TYPE: MODIFIED CHECK

SIZE: 1 1/2

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-55-1 SHEET: 1
COORDINATES: A7

FUNCTION: OPENS TO PERMIT HPCI PUMP SUCTION FROM TORUS.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 5600 GPM T.S. 4.5.1.b.3.	N	OP-IS.BJ-101(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: HIGH PRESSURE COOLANT INJECTION

VALVE NO: 1-BJ-V015

VALVE TYPE: MODIFIED CHECK

SIZE: 4

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-55-1 SHEET: 1

COORDINATES: C4

FUNCTION: OPENS TO PERMIT HPCI PUMP MIN.FLOW RECIRC. PROTECTION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 500 GPM T.S. 3.3.3-2.3.f.	N	OP-IS.BJ-101(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: DELETED RELIEF REQUEST V-18.

REVISION 01

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR CORE ISOLATION COOLING STEAM

VALVE NO: 1-FC-V003

VALVE TYPE: MODIFIED CHECK

SIZE: 10

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: A,C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-49-1 SHEET: 1

COORDINATES: C4

FUNCTION: CONTAINMENT ISOLATION VALVE, P207.
OPENS TO PERMIT RCIC TURBINE EXHAUST.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	YES 18 MO	TYPE C HYDROSTATIC TESTED.	V-03	SS-IS.ZZ-010(Q)
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.BD-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.BD-101(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: APPENDIX J TESTED.

CHANGES: REV 1: CHANGED LEAK TEST PROCEDURE FROM M9-ILP-03H.
REV 2: DELETED RELIEF REQUEST V-18.

REVISION 02

HOPE CREEK IST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: HIGH PRESSURE COOLANT INJECTION STEAM

VALVE NO: 1-FD-V004

VALVE TYPE: MODIFIED CHECK

SIZE: 20

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: A,C ACTIVE NORMAL POSITION: CLOSED

DRAWING: M-55-1 SHEET: 1
COORDINATES: C4

FUNCTION: CONTAINMENT ISOLATION VALVE, P201.
OPENS TO PERMIT HPCI TURBINE EXHAUST.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	YES 18 MO	TYPE C HYDROSTATIC TESTED.	V-03	SS-IS.ZZ-010(Q)
EXERCISE OPEN	YES 3 MO	N/A	N	OP-IS.BJ-101(Q)
EXERCISE CLOSE	YES 3 MO	N/A	N	OP-IS.BJ-101(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	N	N/A	N	N/A

SUBMITTAL COMMENTS: APPENDIX J TESTED.

CHANGES: REV 1: CHANGED LEAK TEST PROCEDURE FROM M9-ILP-03H.
REV 2: DELETED RELIEF REQUEST V-18.

REVISION 02

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM
SECTION 5 - REQUESTS FOR RELIEF

RELIEF REQUEST NO.: P-1 (SHEET 1 OF 2)

COMPONENT(S): Standby Liquid Control Pumps

1-BH-AP-208
1-BH-BP-208

FUNCTION: Provide poison to the Reactor Pressure Vessel.

TEST REQUIREMENT: Subarticle IWP-3400 requires an inservice test to be run on these pumps every 3 months during normal plant operations.

BASIS FOR RELIEF: The Technical Specification Bases for the Standby Liquid Control system states that the minimum system parameters (82.4 GPM, 13.6 % concentration, and natural boron equivalent) will ensure an equivalent injection capability that exceeds the ATWS Rule requirement. The stated minimum allowable pumping rate of 82.4 gallons per minute is met through the simultaneous operation of both pumps. (B 3/4 1-5)

The UFSAR Section 15.8.3.5 states that the Standby Liquid Control system is initiated automatically by RRCS (Redundant Reactivity Control System) logic when needed. It also states that simultaneous operation of two pumps at full capacity allows adequate margin to bring the reactor to a subcritical state.

When the system is tested for surveillance, the adjustment of the systems manual valves are required as well as flushing the system to remove the boron solution. The surveillance tests place each loop of the system out of service for approximately nine hours. The flushing is required because, by design, parts of the system are not insulated, which would result in the crystallization of the boron solution. The duration of the test is also a result of the system design, which does not include pressure pulse suppression chambers. The lack of the chambers requires the test to be conducted on a fill-and-bleed basis to determine the achievement of the required flow rate. This type of testing is time consuming in setup, operation, and establishment of normal system line-up.

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM
SECTION 5 - REQUESTS FOR RELIEF

RELIEF REQUEST NO.: P-1 (SHEET 2 OF 2)

BASIS FOR RELIEF: (Cont'd.)

During the test, the system can not fulfill the statements rendered in the Technical Specification and the UFSAR. In addition, the pump is unavailable since the system does not automatically realign in the event of an initiation signal.

Additionally, a Probabilistic Risk Assessment (PRA) was performed on the SLC system and has shown that performing the pump inservice testing quarterly at power rather than at Cold Shutdowns and Refuelings (twice per cycle), results in a 73% increase in SLC system unavailability. This PRA is attached for review.

Relief is therefore requested from this requirement.

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

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: STANDBY LIQUID CONTROL

PUMP NO: 1A-P-208

PUMP TYPE: POS. DISPL.

PUMP NOMENCLATURE: STANDBY LIQUID CONTROL PUMP A

NUC. CLASS: 2

RATED SPEED: 1800 RPM

DRAWING: M-48-1 SHEET: 1

COORDINATES: E5

FUNCTION: PROVIDE POISON TO RPV

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF REQUIRED</u>	<u>DEPT/ PROCEDURE NO.</u>
DIFFERENTIAL PRESSURE	YES 3 MO	1255 PSIG DISCHARGE PRESSURE REQ'D PER TS 3.1.5	N	OP-IS.BH-001(Q)
FLOW	YES 3 MO	41.2 GPM REQ'D PER TS 3.1.5 DETERMINED BY TEST TANK LEVEL	N	OP-IS.BH-001(Q)
VIBRATION	YES 3 MO	N/A	N	OP-IS.BH-001(Q)
BEARING TEMPERATURE	YES 1 YR	N/A	N	OP-IS.BH-001(Q)
LUBRICATION OBSERVATION	YES 3 MO	N/A	N	OP-IS.BH-001(Q)

PERMANENT PLANT INSTRUMENTATION USED:

DISCHARGE PRESSURE: 1BHPI-R003 (RANGE = 0 - 2000 GPM)

SUBMITTAL COMMENTS: FLOW RATE DETERMINED BY TEST TANK LEVEL CHANGE.

CHANGE: REV 01: CHANGED TEST FREQUENCY OF FLOW, VIBRATION AND LUBE
OBSERVATION TO 3 MOS DUE TO DENIED RELIEF REQUEST P-1.
REV 2: REFORMATTED TO IDENTIFY TECH SPEC FLOW AND DP
REQUIREMENTS. ADDED PLANT INSTRUMENTATION INFORMATION.
REV 3: ADDED SPEED RATING.

REVISION 03

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: STANDBY LIQUID CONTROL

PUMP NO: 1B-P-208

PUMP TYPE: POS. DISPL.

PUMP NOMENCLATURE: STANDBY LIQUID CONTROL PUMP B

NUC. CLASS: 2

RATED SPEED: 1800 RPM

DRAWING: M-48-1 SHEET: 1
COORDINATES: C5

FUNCTION: PROVIDE POISON TO RPV

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF REQUIRED</u>	<u>DEPT/ PROCEDURE NO.</u>
DIFFERENTIAL PRESSURE	YES 3 MO	1255 PSIG DISCHARGE PRESSURE REQ'D PER TS 3.1.5	N	OP-IS.BH-002(Q)
FLOW	YES 3 MO	41.2 GPM REQ'D PER TS 3.1.5 DETERMINED BY TEST TANK LEVEL	N	OP-IS.BH-002(Q)
VIBRATION	YES 3 MO	N/A	N	OP-IS.BH-002(Q)
BEARING TEMPERATURE	YES 1 YR	N/A	N	OP-IS.BH-002(Q)
LUBRICATION OBSERVATION	YES 3 MO	N/A	N	OP-IS.BH-002(Q)

PERMANENT PLANT INSTRUMENTATION USED:

DISCHARGE PRESSURE: 1BHPI-R003 (RANGE = 0 - 2000 GPM)

SUBMITTAL COMMENTS: FLOW RATE DETERMINED BY TEST TANK LEVEL CHANGE.

CHANGE: REV 01: CHANGED TEST FREQUENCY OF FLOW, VIBRATION AND LUBE
OBSERVATION TO 3 MOS DUE TO DENIED RELIEF REQUEST P-1.
REV 2: REFORMATTED TO IDENTIFY TECH SPEC FLOW AND DP
REQUIREMENTS. ADDED PLANT INSTRUMENTATION INFORMATION.
REV 3: ADDED SPEED RATING.

REVISION 03

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM
SECTION 6 - COLD SHUTDOWN JUSTIFICATIONS

COLD SHUTDOWN JUSTIFICATION NO.: CS-16

COMPONENTS: 1-BH-V004
1-BH-V005

JUSTIFICATION: Exercising these valves quarterly during power operation will take one half of the poison capability out of service, which forces the entrance into a Limiting Condition for Operation as the full system capacity is required for adequate margin to bring the reactor to a subcritical state in the event of automatic initiation signal from the Redundant Reactivity Control System (RRCS).

Further justification may be obtained from the Basis for Relief section of Relief Request P-1.

HOPE CREEK IST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: STANDBY LIQUID CONTROL

VALVE NO: 1-BH-V004

VALVE TYPE: CHECK

SIZE: 1.5

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-48-1 SHEET: 1

COORDINATES: D6

FUNCTION: OPENS TO PERMIT SLC INJECTION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 41.2 GPM T.S. 4.1.5.c.	N	OP-IS.BH-001(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: CHANGED EXERCISE OPEN FREQUENCY FROM CSD TO 3 MONTHS.
REMOVED CSD JUSTIFICATION CS-16.

REVISION 01

HOPE CREEK IST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: STANDBY LIQUID CONTROL

VALVE NO: 1-BH-V005

VALVE TYPE: CHECK

SIZE: 1.5

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-48-1 SHEET: 1

COORDINATES: C6

FUNCTION: OPENS TO PERMIT SLC INJECTION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES 3 MO	MIN FLOW 41.2 GPM T.S. 4.1.5.c.	N	OP-IS.BH-002(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: CHANGED EXERCISE OPEN FREQUENCY FROM CSD TO 3 MONTHS.
REMOVED CSD JUSTIFICATION CS-16.

REVISION 01

ATTACHMENT # 3

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM
SECTION 5 - REQUESTS FOR RELIEF

RELIEF REQUEST NO.: P-3

COMPONENT(S): a. High Pressure Coolant Injection & Booster Pump
b. Reactor Core Isolation Cooling Pump

a.1-BJ-OP-204/217
b.1-BD-OP-203

FUNCTION: a. Provide High Pressure Coolant Injection to the Reactor.
b. Provide core isolation cooling to the Reactor.

TEST REQUIREMENT: Subarticle IWP-3500(b) requires that each pump be run until the bearing temperatures stabilize which shall be considered stable when three successive temperature readings taken at 10 minute intervals do not vary by more than 3%.

BASIS FOR RELIEF: These pumps are steam turbine driven pumps that exhaust into the suppression chamber. Running either of these pumps increases the temperature in the suppression chamber to the maximum allowable of 105 degrees F. (per T.S.3.6.2.1.a.2.a) prior to satisfying the Code minimum time period for bearing temperature stabilization. Running both available RHR pumps in Torus Cooling Mode in addition to running the Torus Water Cleanup system cannot keep the suppression chamber temperature below the limit for the required bearing temperature test duration.

Relief is therefore requested from this requirement.

ALTERNATE TESTING: None.

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR CORE ISOLATION COOLING

PUMP NO: 10-P-203

PUMP TYPE: CENTRIFUGAL

PUMP NOMENCLATURE: REACTOR CORE ISOLATION COOLING PUMP

NUC. CLASS: 2

RATED SPEED: 4400 RPM

DRAWING: M-50-1 SHEET: 1
COORDINATES: E5

FUNCTION: PROVIDE REACTOR CORE COOLING

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF REQUIRED</u>	<u>DEPT/ PROCEDURE NO.</u>
DIFFERENTIAL PRESSURE	YES 3 MO	1049 PSID REQ'D PER TS 3.7.4	N	OP-IS.BD-001(Q)
FLOW	YES 3 MO	600 GPM REQ'D PER TS 3.7.4	P-6	OP-IS.BD-001(Q)
VIBRATION	YES 3 MO	N/A	N	OP-IS.BD-001(Q)
BEARING TEMPERATURE	YES 1 YR	N/A	P-3	OP-IS.BD-001(Q)
LUBRICATION OBSERVATION	YES 3 MO	N/A	N	OP-IS.BD-C01(Q)

PERMANENT PLANT INSTRUMENTATION USED:

FLOW: 1FCFIC-R600 (RANGE = 0 - 700 GPM)

SPEED: 1FCSI-4280-1 (RANGE = 0 - 6000 RPM)

DISCHARGE PRESSURE: 1BDPI-R601 (RANGE = 0 - 1500 PSIG)

SUBMITTAL COMMENTS: N/A

CHANGE: REV 01: CHANGED TEST FREQUENCY OF BEARING TEMPERATURE PER
RELIEF REQUEST P-3.
REV 2: REFORMATTED PAGE. ADDED PLANT INSTRUMENTATION
INFORMATION.
REV 3: ADDED SPEED RATING.

REVISION 03

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: HIGH PRESSURE COOLANT INJECTION

PUMP NO: 10-P-204

PUMP TYPE: CENTRIFUGAL

PUMP NOMENCLATURE: HIGH PRESSURE COOLANT INJECTION PUMP

NUC. CLASS: 2

RATED SPEED: 4125 RPM

DRAWING: M-56-1 SHEET: 1

COORDINATES: E, 4

FUNCTION: PROVIDES HPCI FLOW.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF REQUIRED</u>	<u>DEPT/ PROCEDURE NO.</u>
DIFFERENTIAL PRESSURE	YES 3 MO	1196 PSID REQUIRED PER TS 3.5.1	N	OP-IS.BJ-001(Q)
FLOW	YES 3 MO	5600 GPM REQ'D PER TS 3.5.1	P-6	OP-IS.BJ-001(Q)
VIBRATION	YES 3 MO	N/A	N	OP-IS.BJ-001(Q)
BEARING TEMPERATURE	YES 1 YR	N/A	P-3	OP-IS.BJ-001(Q)
LUBRICATION OBSERVATION	YES 3 MO	N/A	N	OP-IS.BJ-001(Q)

PERMANENT PLANT INSTRUMENTATION USED:

FLOW: 1FDFIC-R600 (RANGE = 0 - 6000 GPM)

DISCHARGE PRESSURE: 1BJPI-R601 (RANGE = 0 - 1500 PSIG)

SUBMITTAL COMMENTS: N/A

CHANGE: REV 01: CHANGED TEST FREQUENCY FOR BEARING TEMPERATURE PER
RELIEF REQUEST P-3.

REV 2: REFORMATTED TO IDENTIFY TECH SPEC FLOW AND DP
REQUIREMENTS. ADDED PLANT INSTRUMENTATION INFORMATION.

REV 3: ADDED SPEED RATING. CORRECT FLOW INSTRUMENT ID.

REVISION 03

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: HIGH PRESSURE COOLANT INJECTION

PUMP NO: 10-P-217

PUMP TYPE: CENTRIFUGAL

PUMP NOMENCLATURE: HPCI BOOSTER PUMP

NUC. CLASS: 2

RATED SPEED: 4125 RPM

DRAWING: M-56-1 SHEET: 1
COORDINATES: E,5

FUNCTION: PROVIDES HPCI FLOW.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF REQUIRED</u>	<u>DEPT/ PROCEDURE NO.</u>
DIFFERENTIAL PRESSURE	YES 3 MO	1196 PSID REQUIRED PER TS 3.5.1	N	OP-IS.BJ-001(Q)
FLOW	YES 3 MO	5600 GPM REQ'D PER TS 3.5.1	N	OP-IS.BJ-001(Q)
VIBRATION	YES 3 MO	N/A	N	OP-IS.BJ-001(Q)
BEARING TEMPERATURE	YES 1 YR	N/A	P-3	OP-IS.BJ-001(Q)
LUBRICATION OBSERVATION	YES 3 MO	N/A	N	OP-IS.BJ-001(Q)

PERMANENT PLANT INSTRUMENTATION USED:

TESTED IN CONJUNCTION WITH HPCI MAIN PUMP.

SUBMITTAL COMMENTS: N/A

CHANGE: REV 01: CHANGED TEST FREQUENCY FOR BEARING TEMPERATURE PER
RELIEF REQUEST P-3.
REV 2: REFORMATTED PAGE. ADDED PLANT INSTRUMENTATION
INFORMATION.
REV 3: ADDED SPEED RATING.

REVISION 03

ATTACHMENT # 4

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM
SECTION 6 - COLD SHUTDOWN JUSTIFICATIONS

COLD SHUTDOWN JUSTIFICATION NO.: CS-19

COMPONENTS: 0 - RC-SV-8903A
0 - RC-SV-8903B

JUSTIFICATION: Exercise, stroke time, and fail safe testing of these valves at power operation provides the potential for reactor scram based on pressure perturbations which can propagate through the transmitter.

Testing these valves at power has, on several occasions, caused inadvertent plant transients and/or actuations of Emergency Safeguards Features (ESFs). This has been attributed to pressure perturbations caused by cycling the affected valves. These perturbations are communicated, via instrumentation sensing lines, to various reactor level transmitters.

The perturbation was caused by low downstream pressure as a result of opening the upstream PASS jet pump sample containment isolation valve. This pressure reduction was felt at the variable leg side of 1BBLT-N085A. This is a Rosemount 1153 transmitter utilizing an oil filled capacitor as its sensor. Insofar as the transmitter sensor assembly constitutes a filled system of small volume, any pressure perturbation can readily propagate through it to the reference side of the transmitter; at this point it is in direct communication with all the instruments on the Channel "A" reactor water level and steam dome pressure transmitters.

reference Docket 50-354 (TAC NO. M82200) 01/29/92

HOPE CREEK IST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: POST ACCIDENT SAMPLING

<u>VALVE NO:</u> N/A	<u>VALVE TYPE:</u> GLOBE	<u>SIZE:</u> 1
<u>OPER. NO:</u> 1-RC- SV-8903A	<u>ACTUATOR TYPE:</u> SOLENOID	<u>NUC. CLASS:</u> 1
<u>CATEGORY:</u> A	<u>ACTIVE</u>	<u>NORMAL POSITION:</u> CLOSED
		<u>DRAWING:</u> M-38-0 <u>SHEET:</u> 1
		<u>COORDINATES:</u> G7
<u>FUNCTION:</u> CONTAINMENT ISOLATION VALVE, J50.		

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	YES 2 YR	TYPE C GAS TESTED.	V-04	SS-IS.ZZ-010 (Q)
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-19	OP-IS.RC-102 (Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	YES CSDN	N/A	CS-19	OP-IS.RC-102 (Q)
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	YES CSDN	N/A	CS-19	OP-IS.RC-102 (Q)
REMOTE POS. IND. VER.	YES 2 YR	N/A	N	OP-IS.RC-102 (Q)
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS: APPENDIX J TESTED. FAST ACTING SOLENOID.

CHANGES: REV 1: CHANGED EXERCISE CLOSE, TIME CLOSE AND FAIL SAFE TEST FREQUENCY. ADDED COLD SHUTDOWN JUSTIFICATION 19 BASED ON RESPONSE TO QUESTION 102 IN "MINUTES OF PUBLIC MEETINGS ON GENERIC LETTER 89-04".
REV 2: CHANGED LEAK TEST PROCEDURE FROM M9-ILP-03H.
REV 3: CHANGED EXERCISE, FAIL SAFE AND RPIV PROCEDURE FROM OP-IS.RC-101(Q). CHANGED UNIT DESIGNATOR FROM "0" TO "1".

REVISION 03

HOPE CREEK GENERATING STATION
INSERVICE TESTING PROGRAM

COLD SHUTDOWN JUSTIFICATION: CS-20

COMPONENTS:	1BBV-232	1BBV-246
	1BBV-233	1BBV-247
	1BBV-239	1BBV-252
	1BBV-240	1BBV-253

JUSTIFICATION: These check valves cannot be exercised during power operations. These valves are in instrument sensing lines that initiate logic circuits or process control parameters that are required during power operation and cold shutdown conditions. Testing of these valves at the 3 month frequency would either disable safety system initiation logic or unnecessarily challenge safety systems.

Relief Request V-28 has been submitted to the NRC to allow testing of these valves on an 18 month/Refuel Outage Frequency.

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

STEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V232

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL CHANNEL A INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-119 (Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4BC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V233 VALVE TYPE: CHECK SIZE: 0.375
OPER. NO: N/A ACTUATOR TYPE: SELF NUC. CLASS: 2
CATEGORY: C ACTIVE NORMAL POSITION: OPEN DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL CHANNEL A INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-119(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V239

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL B INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-120(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V240

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL B INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-120(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

STEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V246 VALVE TYPE: CHECK SIZE: 0.375
OPER. NO: N/A ACTUATOR TYPE: SELF NUC. CLASS: 2
CATEGORY: C ACTIVE NORMAL POSITION: OPEN DRAWING: M-45-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL C INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-121(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V247

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL CHANNEL C INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-121(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

STEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V252

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL
CHANNEL D INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-122(Q)
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: REACTOR RECIRCULATION

VALVE NO: 1-BB-V253

VALVE TYPE: CHECK

SIZE: 0.375

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 2

CATEGORY: C

ACTIVE

NORMAL POSITION: OPEN

DRAWING: M-46-1 SHEET: 2
COORDINATES:

FUNCTION: CLOSE UPON LOSS OF CRD BACKFILL TO PREVENT LOSS OF RX WATER LEVEL CHANNEL D INDICATION.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	NO	N/A	N	N/A
EXERCISE CLOSE	YES CSDN	N/A	CS-20	IC-GP.ZZ-122 (Q)
TIME OPEN	NO	N/A	N	N/A
IME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

CHANGES: REV 00: VALVE ADDED TO PROGRAM PER DCP 4EC-3407, PKG 2.

REVISION 00

ATTACHMENT # 5

HOPE CREEK IST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NO: 1-BC-V423

VALVE TYPE: CHECK

SIZE: 2

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 3

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-10-1 SHEET: 2

COORDINATES: B3

FUNCTION: PERMITS EMERGENCY MAKEUP FLOW FROM SERVICE OR FIRE WATER TO SACS
B LOOP AND FUEL POOL MAKEUP.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES	DISASSEMBLE/INSPECT EVERY 18M PER APPENDIX B, ATTACHMENT 4	N	OP-IS.EA-102(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS: N/A

CHANGES: REV 1: ADDED DISASSEMBLE/INSPECTION COMMENT TO EXER OPEN.

HOPE CREEK 1ST COMPONENT REQUIREMENT
Review Sheet

SYSTEM: SERVICE WATER

VALVE NO: 1-EA-V557

VALVE TYPE: CHECK

SIZE: 2

OPER. NO: N/A

ACTUATOR TYPE: SELF

NUC. CLASS: 3

CATEGORY: C

ACTIVE

NORMAL POSITION: CLOSED

DRAWING: M-10-1 SHEET: 2

COORDINATES: B7

FUNCTION: PERMITS EMERGENCY MAKEUP FLOW FROM SERVICE OR FIRE WATER TO SACS
A LOOP & FUEL POOL MAKEUP.

<u>TEST</u>	<u>REQUIRED/ FREQUENCY</u>	<u>COMMENTS</u>	<u>RELIEF/ C/S JUST</u>	<u>DEPT/ PROCEDURE NO.</u>
LEAK TEST	NO	N/A	N	N/A
EXERCISE OPEN	YES	DISASSEMBLE/INSPECT EVERY 18M PER APPENDIX B, ATTACHMENT 4.	N	OP-IS.EA-101(Q)
EXERCISE CLOSE	NO	N/A	N	N/A
TIME OPEN	NO	N/A	N	N/A
TIME CLOSE	NO	N/A	N	N/A
LIFT SET TESTED	NO	N/A	N	N/A
FAIL SAFE TEST	NO	N/A	N	N/A
REMOTE POS. IND. VER.	NO	N/A	N	N/A
EXPLOSIVE/ RUPTURE DISC	NO	N/A	N	N/A

SUBMITTAL COMMENTS:

N/A

CHANGES: REV 1: ADDED DISASSEMBLE/INSPECTION COMMENT FOR EXER OPEN.

REVISION 01

TO: IST File
FROM: Lee Parris *ful*
IST Engineer
SUBJECT: Disassembly and Inspection of 1EAV-557 and 1BCV-423
Frequency Change from 92 Days to 18 Months
DATE: February 5, 1994

ASME Section XI, Subsection IWV-3522, requires check valves to be full stroked exercised every 92 days to the position required to fulfill their safety function. NRC Generic Letter 89-04, Position 1, further clarified this requirement to define an acceptable full stroke test. Per the Generic Letter, "A check valve's full-stroke to the open position may be verified by passing the maximum required accident flow through the valve".

Valves 1EAV-557 and 1BCV-423 are located in the Station Service Water Emergency Makeup lines to SACS and the Fuel Pool. The required accident flow through these valves is 73.5 gpm per UFSAR Table 9.1-17. This is the maximum decay heat and evaporation rate from the fuel pool during loss of fuel pool cooling. Under normal operating conditions, the lines containing these valves are drained. These valves would not normally be exposed to service water, but are exposed to fire water during testing.

Due to system configuration limitations, the required flow cannot be obtained through the 1" drain connection during the test. No other outlet point exists for the test flow. Therefore, these valves must have an acceptable alternative to the full flow test performed in order to satisfy the ASME Section XI requirements.

NRC Generic Letter 89-04, Position 2, provides alternatives to the full flow testing of check valves. Among the alternatives is disassembly and inspection with a partial flow test (i.e. < maximum accident flow) following reassembly of the valves. This is the current test method employed per OP-IS.EA-101(Q) and -102(Q).

The Generic Letter allows for performance of the disassembly and inspection at a frequency other than 92 days. It further defines the documentation required to allow for this frequency change. This letter will serve to document the information required to change the disassembly frequency from every 92 days to 18 months.

The testing frequency for these valves will be changed to the following:

- Perform a partial flow test every 92 days
- Disassemble and inspect each valve every 18 months

The Generic Letter addresses the performance of disassembly and inspection of one valve during each refueling outage. However, it further states that testing one valve per refuel outage is allowed "where the licensee has determined that it is burdensome to disassemble and inspect all applicable valves each refueling outage". Therefore, since it cannot be shown that the testing of both valves will impose a burden, they will each be tested once per refueling cycle.

Furthermore, since the disassembly of the valves can be performed during non-outage periods, the frequency will be established "as once per 18 months" rather than "once per refueling outage". Per Reference 2, Question 14, justification for the chosen frequency should be documented in the IST Program. In all cases, the testing frequency being established is as conservative or more conservative than the allowances of NRC Generic Letter 89-04.

The following items are required by the Generic Letter to allow the change:

1. During testing by disassembly, the valve internals should be visually inspected for worn and corroded parts, and the valve disk should be manually exercised.
2. The change to the test frequency must be specifically noted in the IST Program.

ITEM 1

Each of these valves has been disassembled and inspected every 92 days since July 1990 and a partial flow test has been performed after reassembly. The valve condition and manual exercising has been noted on the work orders. A review of all associated work orders has shown no degraded conditions during any inspection (approx 15 tests per valve). Refer to Recurring tasks 100162 for 1EAV-557 and 100163 for 1BCV-423.

ITEM 2

This documentation will be included in the Hope Creek IST Manual and noted on each affected valve's Component Requirement Review Sheet.

REFERENCES:

1. NRC Generic Letter 89-04, Published 4-3-89, Positions 1 and 2.
 2. Minutes of the Public Meetings on Generic Letter 89-04, Published 10-25-89.
 3. NUREG-1482 (Draft), Published 11-93.
- c. W. Mokoid
D. Powell