

2-15-85

SAN-ONOFRE NUCLEAR GENERATING STATION
UNITS 2 AND 3

OPERATING INSTRUCTION S023-3-2.7
REVISION 7 PAGE 1 OF 8
ATTACHMENT 8.3
CHECK-OFF LIST 3
TCN 7-8

HIGH PRESSURE SAFETY INJECTION SYSTEM
ELECTRICAL LINE-UP - UNIT 2

DATE 2-15-85 TIME 2020

1.0 PREREQUISITES

INITIALS

1.1 Prior to use of an uncontrolled (pink) copy of this Station Document to perform work, verify that it is current by checking a controlled copy an any TCNs or by use of the method described in S0123-VI-1.0.

LB

1.1.1 List all applicable TCNs or write N.A.

7-8

1.2 On-shift SRO-Operations Supervisor approval obtained.
(SRO OPS SUPV Initials)

LB

- NOTE: (1) May be closed if in Modes 3, 4 or 5 with Pressurizer pressure less than 715 psia.
(2) Requires a manual reset on a loss of power.

NOTE: All locked breakers are locked with an ESF lock.

2.0 PROCEDURE

2.1 Control Room Key Switches

CAUTION Before energizing breaker, verify key switch
===== position is selected to match actual valve position.

| STEP | COMPONENT | DESCRIPTION | NOTE | REQUIRED STATUS | INITIALS 1ST/2ND |
|-------|-----------|---------------------------------------------|------|-----------------|------------------|
| 2.1.1 | 2BE-10 | 2HV-9350, SIT 2T-007 (1) Discharge Valve | | LOCKED OPEN | <u>LB</u> |
| 2.1.2 | 2BE-11 | 2HV-9360, SIT 2T-009 (1) Discharge Valve | | LOCKED OPEN | <u>LB</u> |
| 2.1.3 | 2BY-09 | 2HV-9306, SI Pumps Mini-Flow | | CLOSED | <u>LB</u> |
| 2.1.4 | 2BY-13 | 2HV-9307, SI Pumps Mini-Flow | | CLOSED | <u>LB</u> |
| 2.1.5 | 2BY-41 | 2HV-9300, RWST 2T-005 Outlet Valve | | CLOSED | <u>LB</u> |

8508150210 850717
PDR F01A
BELL85-425

2.0 PROCEDURE (Continued)

| STEP | COMPONENT | DESCRIPTION | NOTE | REQUIRED STATUS | INITIALS 1ST/2ND |
|--------|-----------|--------------------------------------|------|-----------------|---------------------|
| 2.1.6 | 2BJ-06 | 2HV-9340, SIT 2T-008 Discharge Valve | (1) | LOCKED OPEN | <u>W/101 R</u> |
| 2.1.7 | 2BJ-07 | 2HV-9370 SIT 2T-010 Discharge Valve | (1) | LOCKED OPEN | <u>W/101 R</u> |
| 2.1.8 | 2BJ-09 | 2HV-9347, SI Pumps Mini-Flow | | CLOSED | <u>W/101 R</u> |
| 2.1.9 | 2BJ-13 | 2HV-9348, SI Pump Mini-Flow | | CLOSED | <u>W/101 R</u> |
| 2.1.10 | 2BZ-28 | 2HV-9301, RWST 2T-006 Outlet Valve | | CLOSED | <u>W/101 R</u> |

2.2 ESF Switchgear Room Train A MCCs

| | | | | | |
|-------|--------|-----------------------------------------------|--|----------------|----------------|
| 2.2.1 | 2BE-09 | 2HV-9334, SIT's Drain Header to RWT | | CLOSED | <u>W/101 R</u> |
| 2.2.2 | 2BE-18 | 2HV-9327, HPSI #1 Header Injection Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.3 | 2BE-19 | 2HV-9330, HPSI #1 Header Injection Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.4 | 2BE-22 | 2HV-9324, HPSI #1 Header Injection Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.5 | 2BE-23 | 2HV-9333, HPSI #1 Header Injection Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.6 | 2BE-35 | 2HV-9305, Containment Emer. Sump Outlet Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.7 | 2BY-28 | 2HV-9303, Containment Emer. Sump Outlet Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.8 | 2BY-29 | 2HV-9420, HPSI #1 Header Hot Leg Injection | | LOCKED OPEN | <u>W/101 R</u> |

2.3 ESF Switchgear Room Train B MCCs

| | | | | | |
|-------|--------|------------------------------------------|--|--------|----------------|
| 2.3.1 | 2BJ-14 | 2HV-9323, HPSI #2 Header Injection Valve | | CLOSED | <u>W/101 R</u> |
| 2.3.2 | 2BJ-15 | 2HV-9332, HPSI #2 Header Injection Valve | | CLOSED | <u>W/101 R</u> |

NOTE: (1) May be closed if in Modes 3, 4 or 5 with Pressurizer pressure less than 715 psia.

2.0 PROCEDURE (Continued)

| <u>STEP</u> | <u>COMPONENT</u> | <u>DESCRIPTION</u> | <u>REQUIRED STATUS</u> | <u>INITIALS</u> <u>1ST/2ND</u> |
|-------------|-------------------------|-----------------------------------------------------------------|------------------------|-----------------------------------|
| 2.3.3 | 2BJ-18 | 2HV-9326, HPSI #2 Header Injection Valve | CLOSED | <i>[Signature]</i> |
| 2.3.4 | 2BJ-19 | 2HV-9329, HPSI #2 Header Injection Valve | CLOSED | <i>[Signature]</i> |
| 2.3.5 | 2BJ-33 | 2HV-9302, Containment Emer. Sump Outlet Valve | CLOSED | <i>[Signature]</i> |
| 2.3.6 | 2BJ-34 | 2HV-9304, Containment Emer. Sump Outlet Valve | CLOSED | <i>[Signature]</i> |
| 2.3.7 | 2BZ-39 | 2HV-9434, HPSI #2 Header Hot Leg Injection Valve | LOCKED OPEN | <i>[Signature]</i> |
| 2.3.8 | 2BJ-22 | HV-0508, RCS T _H #1 Sample Valve | CLOSED | <i>[Signature]</i> |
| 2.3.9 | 2BJ-27 | 2HV-0512, PZR Sample Valve | CLOSED | <i>[Signature]</i> |
| 2.3.10 | 2BJ-23 | 2HV-0517, RCS T _H #2 Sample | CLOSED | <i>[Signature]</i> |
| 2.3.11 | 2BJ-26 | 2HV-0510, PZR Vapor Sample Valve | CLOSED | <i>[Signature]</i> |
| 2.4 | 45' Penetration | | | |
| 2.4.1 | 2BA-59 | 2HV-9335 SIT's Tank Drain Header to RCS Drain Tank | CLOSED | <i>[Signature]</i> |
| 2.5 | At Shutdown Panel 2L-42 | | | |
| 2.5.1 | 2HS-9350C1 | SI Tank 2T-007 S.W. Outlet "Local/Control Room" Selector Switch | CONTROL ROOM | <i>[Signature]</i> |
| 2.5.2 | 2HS-9360C1 | SI Tank 2T-009 Outlet "Local/Control Room" Selector Switch | CONTROL ROOM | <i>[Signature]</i> |

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6/2/82

2.0 PROCEDURE (Continued)

| <u>STEP</u> | <u>COMPONENT</u> | <u>DESCRIPTION</u> | <u>NOTE</u> | <u>REQUIRED STATUS</u> | <u>INITIALS</u> <u>1ST/2ND</u> |
|--------------------------------|------------------|------------------------------------------------------------------|-------------|------------------------|----------------------------------------|
| 2.5.3 | 2HS-9340C2 | SI Tank 2T-008 Outlet "Local/Control Room" Selector Switch | | CONTROL ROOM | <u>[Signature]</u> <u>1st</u> <u>R</u> |
| 2.5.4 | 2HS-9370C2 | SI Tank 2T-010 Outlet "Local/Control Room" Selector Switch | | CONTROL ROOM | <u>[Signature]</u> <u>1st</u> <u>R</u> |
| 2.6 <u>Inside Panel 2L-071</u> | | | | | |
| 2.6.1 | 2L071-1F-DS712 | SIT 2T-009 Fill and Drain Valve 2HV-9362 | (2) | CLOSED | <u>[Signature]</u> <u>1st</u> <u>R</u> |
| 2.6.2 | 2L071-1F-DS715 | SIT 2T-010 Fill and Drain Valve 2HV-9372 | (2) | CLOSED | <u>[Signature]</u> <u>1st</u> <u>R</u> |
| 2.6.3 | 2L071-2F-DS706 | SIT 2T-008 Fill and Drain Valve 2HV-9342 | (2) | CLOSED | <u>[Signature]</u> <u>1st</u> <u>R</u> |
| 2.6.4 | 2L071-2F-DS707 | SIT 2T-008 Nitrogen Supply Valve 2HV-9344 | (2) | CLOSED | <u>[Signature]</u> <u>1st</u> <u>R</u> |
| 2.6.5 | 2L071-2F-DS709 | SIT 2T-007 Fill and Drain Valve 2HV-9352 | (2) | CLOSED | <u>[Signature]</u> <u>1st</u> <u>R</u> |
| 2.6.6 | 2L071-2F-DS710 | SIT 2T-007 Nitrogen Supply Valve 2HV-9354 | (2) | CLOSED | <u>[Signature]</u> <u>1st</u> <u>R</u> |
| 2.6.7 | 2L071-2F-DS713 | SIT 2T-009 Nitrogen Supply Valve 2HV-9364 | (2) | CLOSED | <u>[Signature]</u> <u>1st</u> <u>R</u> |
| 2.6.8 | 2L071-2F-DS716 | SIT 2T-010 Nitrogen Supply Valve 2HV-9374 | (2) | CLOSED | <u>[Signature]</u> <u>1st</u> <u>R</u> |

NOTE: (2) Requires a manual reset on a loss of power.

2.0 PROCEDURE (Continued)

| <u>STEP</u> | <u>COMPONENT</u> | <u>DESCRIPTION</u> | <u>REQUIRED STATUS</u> | <u>INITIALS</u> <u>1ST/2ND</u> |
|-------------|----------------------------------|---------------------------------------------------------------------------|------------------------|-----------------------------------|
| 2.6.9 | 2L071-3F-DS401 | SI Header Check Valve Leakage Drain Valve 2HV-9351 | CLOSED | <u>JM/101 R</u> |
| 2.6.10 | 2L071-3F-DS402 | SI Header Check Valve Leakage Drain Valve 2HV-9361 | CLOSED | <u>JM/101 R</u> |
| 2.6.11 | 2L071-5F-DS454 & DS455 | SIT 2T-008 Vent Valve 2HV-9345 | CLOSED | <u>C. Smith</u> |
| 2.6.12 | F-19/F-20 | 2HV-9345 Fuses | INSTALLED | <u>JM/101 R</u> |
| 2.6.13 | 2L071-5F-DS456 | Number One Header HP Hot Leg Injection Line Drain Valve 2HV-9433 | CLOSED | <u>JM/101 R</u> |
| 2.6.14 | 2L071-5F-DS463 & DS464 | SIT 2T-010 Vent Valve 2HV-9375 | CLOSED | <u>JM/101 R</u> |
| 2.6.15 | F-23/F-24 | 2HV-9375 Fuses | INSTALLED | <u>JM/101 R</u> |
| 2.6.16 | 2L071-3R-DS401 | SI Header Check Valve Leakage Drain Valve 2HV-9341 | CLOSED | <u>JM/101 R</u> |
| 2.6.17 | 2L071-3R-DS402 | SI Header Check Valve Leakage Drain Valve 2HV-9371 | CLOSED | <u>JM/101 R</u> |
| 2.6.18 | 2L071-3R-DS-445 2HV-9365 | SIT 2T-009 Vent Valve 2HV-9365 | CLOSED | <u>C. Smith</u> |
| 2.6.19 | F-52/F-53 | 2HV-9365 Fuses | INSTALLED | <u>JM/101 R</u> |

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24 |

24 |

2.0 PROCEDURE (Continued)

| <u>STEP</u> | <u>COMPONENT</u> | <u>DESCRIPTION</u> | <u>REQUIRED STATUS</u> | <u>INITIALS</u> <u>1ST/2ND</u> |
|-------------|---------------------------|-------------------------------------------------------------------|----------------------------|-----------------------------------|
| 2.6.20 | 2L071-3R-DS447 | Number Two Header HP Hot Leg Injection Drain Valve 2HV-9437 | CLOSED | <i>[Signature]</i> 12/10/12 |
| 2.6.21 | 2L071-3R-DS456 | SIT 2T-007 Vent Valve 2HV-9355 | CLOSED | <i>[Signature]</i> 12/10/12 |
| 2.6.22 | F-56/F-57 | 2HV-9355 Fuses | INSTALLED | <i>[Signature]</i> 12/10/12 |
| 2.6.23 | 2L071-3F-DS811 | Train A SIAS Automatic Alert system to OES in Sacramento | CLOSED | <i>[Signature]</i> |
| 2.6.24 | 2L071-3R-DS911 | Train B SIAS automatic alert system to OES in Sacramento | CLOSED | <i>[Signature]</i> 12/10/12 |
| 2.6.25 | 2HS-8998 | Automatic Alert System alarm Bypass keyswitch at 2L-492 | OPERATE/ Key Removed | <i>[Signature]</i> 12/10/12 |
| 2.6.26 | 2RL071-3F DS421; SW8 | 2HV-0509; RCS T _H #1 Sample Valve | CLOSED | <i>[Signature]</i> 12/10/12 |
| 2.6.27 | 2RL071-4F- DS422; SW36 | 2HV-0513, PZR Sample Valve | CLOSED | <i>[Signature]</i> 12/10/12 |
| 2.6.28 | 2RL071-DS-420 | 2HV-0511, PZR Vapor Sample Valve | CLOSED | <i>[Signature]</i> 12/10/12 |

2.7 Electrical Line-Up for Containment Pressure

| | | | | |
|-------|--------------------------|----------------------------|--------|-----------------------------|
| 2.7.1 | 2RL071-5F DS459; SW44 | 2HV-0352-A Power Supply | CLOSED | <i>[Signature]</i> 12/10/12 |
| 2.7.2 | 2RL071-5R DS454; SW90 | 2HV-0352-B Power Supply | CLOSED | <i>[Signature]</i> 12/10/12 |
| 2.7.3 | 2RL071-5R DS401; SW77 | 2HV-0352-C Power Supply | CLOSED | <i>[Signature]</i> 12/10/12 |
| 2.7.4 | 2RL071-5R DS201; SW79 | 2HV-0352-D Power Supply | CLOSED | <i>[Signature]</i> 12/10/12 |

2.0 PROCEDURE (Continued)

2.8 The following aligns the Emerg. Evacuation Sirens to prevent an inadvertent actuation. If sirens are in service, N/A step 2.7.1: (When in service, 2HS-7890-1 Green light indicates STOP).

2.8.1 Verify open or open:

| | | | |
|------------------|------------------------|------|-----------------------|
| .1.1 BQ-13 | Emerg. Siren Cont. Pnl | OPEN | <i>[Signature]</i> NA |
| .1.2 BQ-26 | Emerg. Siren Cont. Pnl | OPEN | <i>[Signature]</i> NA |
| .1.3 Q033 bkr 11 | Electronic Siren | OPEN | <i>[Signature]</i> NA |
| .1.4 Q033 bkr 13 | Electronic Siren | OPEN | <i>[Signature]</i> NA |
| .1.5 Q033 bkr 15 | Electronic Siren | OPEN | <i>[Signature]</i> NA |

2.8.2 Verify or perform:

| | | | |
|------------------|--------------------|--------|-----------------------|
| .2.1 BQ-27 | Q033 pwr. supply | CLOSED | <i>[Signature]</i> NA |
| .2.2 Q033 bkr 14 | Aux. Emerg. Siren | CLOSED | <i>[Signature]</i> NA |
| .2.3 L344 DS-15 | Aux. Emerg. Siren | CLOSED | <i>[Signature]</i> NA |
| .2.4 2HS-7890-1 | Emerg. Evac. Siren | STOP | <i>[Signature]</i> NA |
| .2.5 3HS-7890-1 | Emerg. Evac. Siren | STOP | <i>[Signature]</i> NA |

2.8.3 Verify closed or close:

| | | | |
|------------------|------------------------|--------|-----------------------|
| .3.1 Q033 bkr 11 | Electronic Siren | CLOSED | <i>[Signature]</i> NA |
| .3.2 Q033 bkr 13 | Electronic Siren | CLOSED | <i>[Signature]</i> NA |
| .3.3 Q033 bkr 15 | Electronic Siren | CLOSED | <i>[Signature]</i> NA |
| .3.4 BQ-13 | Emerg. Siren Cont. Pnl | CLOSED | <i>[Signature]</i> NA |
| .3.5 BQ-26 | Emerg. Siren Cont. pnl | CLOSED | <i>[Signature]</i> NA |

PERFORMED BY: *[Signature]*
Operator Initial

DATE/TIME 02-15-85/2200

PERFORMED BY: *[Signature]* *[Signature]*
Operator Initial

DATE/TIME 3-16-85/0245

PERFORMED BY: *[Signature]* *[Signature]*
Operator Initial

DATE/TIME 3-10-85 KAD

VERIFIED BY: *[Signature]* *[Signature]*
Operator Initial

DATE/TIME 2/15/85 2200

VERIFIED BY: *[Signature]* *[Signature]*
Operator Initial

DATE/TIME 2-16-85 0030

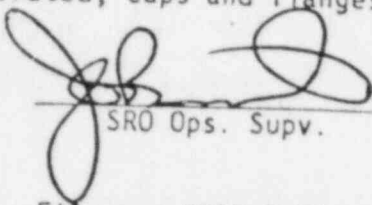
3-10-85

SAN ONOFRE NUCLEAR GENERATING STATION
UNITS 2 AND 3

OPERATING INSTRUCTION S023-3-2.7
REVISION 7 PAGE 8 OF 8
ATTACHMENT 8.3
CHECK-OFF LIST 3
TCN 7-8

NOTE: SRO Ops. Supv. shall not sign "Reviewed By" until all comments in relation to this Check-Off List have been resolved i.e.: TCNs written and incorporated, caps and flanges installed, locks and chains in place, etc.

REVIEWED BY:


SRO Ops. Supv.

DATE/TIME 3-10-85 1700

FILE DISPOSITION: File per S023-0-28

COMMENTS:

2-15-85

SAN-ONOFRE NUCLEAR GENERATING STATION
UNITS 2 AND 3

OPERATING INSTRUCTION S023-3-2.7
REVISION 7
ATTACHMENT 8.3
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TCN 7-8

PAGE 1 OF 8

HIGH PRESSURE SAFETY INJECTION SYSTEM
ELECTRICAL LINE-UP - UNIT 2

DATE 2-15-85 TIME 2020

1.0 PREREQUISITES

INITIALS

1.1 Prior to use of an uncontrolled (pink) copy of this Station Document to perform work, verify that it is current by checking a controlled copy an any TCNs or by use of the method described in S0123-VI-1.0.

LB

1.1.1 List all applicable TCNs or write N.A.

7-8

1.2 On-shift SRO-Operations Supervisor approval obtained.
(SRO OPS SUPV Initials)

LB

- NOTE: (1) May be closed if in Modes 3, 4 or 5 with Pressurizer pressure less than 715 psia.
- (2) Requires a manual reset on a loss of power.

NOTE: All locked breakers are locked with an ESF lock.

2.0 PROCEDURE

2.1 Control Room Key Switches

CAUTION
===== Before energizing breaker, verify key switch position is selected to match actual valve position.

| <u>STEP</u> | <u>COMPONENT</u> | <u>DESCRIPTION</u> | <u>NOTE</u> | <u>REQUIRED STATUS</u> | <u>INITIALS 1ST/2ND</u> |
|-------------|------------------|---------------------------------------------|-------------|------------------------|-------------------------|
| 2.1.1 | 2BE-10 | 2HV-9350, SIT 2T-007 (1) Discharge Valve | | LOCKED OPEN | <u>LB</u> |
| 2.1.2 | 2BE-11 | 2HV-9360, SIT 2T-009 (1) Discharge Valve | | LOCKED OPEN | <u>LB</u> |
| 2.1.3 | 2BY-09 | 2HV-9306, SI Pumps Mini-Flow | | CLOSED | <u>LB</u> |
| 2.1.4 | 2BY-13 | 2HV-9307, SI Pumps Mini-Flow | | CLOSED | <u>LB</u> |
| 2.1.5 | 2BY-41 | 2HV-9300, RWST 2T-005 Outlet Valve | | CLOSED | <u>LB</u> |

2.0 PROCEDURE (Continued)

| STEP | COMPONENT | DESCRIPTION | NOTE | REQUIRED STATUS | INITIALS 1ST/2ND |
|--------|-----------|--------------------------------------|------|-----------------|---------------------|
| 2.1.6 | 2BJ-06 | 2HV-9340, SIT 2T-008 Discharge Valve | (1) | LOCKED OPEN | <u>W/101 R</u> |
| 2.1.7 | 2BJ-07 | 2HV-9370 SIT 2T-010 Discharge Valve | (1) | LOCKED OPEN | <u>W/101 R</u> |
| 2.1.8 | 2BJ-09 | 2HV-9347, SI Pumps Mini-Flow | | CLOSED | <u>W/101 R</u> |
| 2.1.9 | 2BJ-13 | 2HV-9348, SI Pump Mini-Flow | | CLOSED | <u>W/101 R</u> |
| 2.1.10 | 2BZ-28 | 2HV-9301, RWST 2T-006 Outlet Valve | | CLOSED | <u>W/101 R</u> |

2.2 ESF Switchgear Room Train A MCCs

| | | | | | |
|-------|--------|-----------------------------------------------|--|----------------|----------------|
| 2.2.1 | 2BE-09 | 2HV-9334, SIT's Drain Header to RWT | | CLOSED | <u>W/101 R</u> |
| 2.2.2 | 2BE-18 | 2HV-9327, HPSI #1 Header Injection Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.3 | 2BE-19 | 2HV-9330, HPSI #1 Header Injection Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.4 | 2BE-22 | 2HV-9324, HPSI #1 Header Injection Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.5 | 2BE-23 | 2HV-9333, HPSI #1 Header Injection Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.6 | 2BE-35 | 2HV-9305, Containment Emer. Sump Outlet Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.7 | 2BY-28 | 2HV-9303, Containment Emer. Sump Outlet Valve | | CLOSED | <u>W/101 R</u> |
| 2.2.8 | 2BY-29 | 2HV-9420, HPSI #1 Header Hot Leg Injection | | LOCKED OPEN | <u>W/101 R</u> |

2.3 ESF Switchgear Room Train B MCCs

| | | | | | |
|-------|--------|------------------------------------------|--|--------|----------------|
| 2.3.1 | 2BJ-14 | 2HV-9323, HPSI #2 Header Injection Valve | | CLOSED | <u>W/101 R</u> |
| 2.3.2 | 2BJ-15 | 2HV-9332, HPSI #2 Header Injection Valve | | CLOSED | <u>W/101 R</u> |

NOTE: (1) May be closed if in Modes 3, 4 or 5 with Pressurizer pressure less than 715 psia.

2.0 PROCEDURE (Continued)

| <u>STEP</u> | <u>COMPONENT</u> | <u>DESCRIPTION</u> | <u>REQUIRED STATUS</u> | <u>INITIALS</u> <u>1ST/2ND</u> |
|-------------|--------------------------------|-----------------------------------------------------------------|------------------------|-----------------------------------|
| 2.3.3 | 2BJ-18 | 2HV-9326, HPSI #2 Header Injection Valve | CLOSED | <u>[Signature]</u> |
| 2.3.4 | 2BJ-19 | 2HV-9329, HPSI #2 Header Injection Valve | CLOSED | <u>[Signature]</u> |
| 2.3.5 | 2BJ-33 | 2HV-9302, Containment Emer. Sump Outlet Valve | CLOSED | <u>[Signature]</u> |
| 2.3.6 | 2BJ-34 | 2HV-9304, Containment Emer. Sump Outlet Valve | CLOSED | <u>[Signature]</u> |
| 2.3.7 | 2BZ-39 | 2HV-9304, HPSI #2 Header Hot Leg Injection Valve | LOCKED OPEN | <u>[Signature]</u> |
| 2.3.8 | 2BJ-22 | HV-0508, RCS T _H #1 Sample Valve | CLOSED | <u>[Signature]</u> |
| 2.3.9 | 2BJ-27 | 2HV-0512, PZR Sample Valve | CLOSED | <u>[Signature]</u> |
| 2.3.10 | 2BJ-23 | 2HV-0517, RCS T _H #2 Sample | CLOSED | <u>[Signature]</u> |
| 2.3.11 | 2BJ-26 | 2HV-0510, PZR Vapor Sample Valve | CLOSED | <u>[Signature]</u> |
| 2.4 | 45' Penetration | | | |
| 2.4.1 | 2BA-59 | 2HV-9335 SIT's Tank Drain Header to RCS Drain Tank | CLOSED | <u>[Signature]</u> |
| 2.5 | <u>At Shutdown Panel 2L-42</u> | | | |
| 2.5.1 | 2HS-9350C1 | SI Tank 2T-007 S.W. Outlet "Local/Control Room" Selector Switch | CONTROL ROOM | <u>[Signature]</u> |
| 2.5.2 | 2HS-9360C1 | SI Tank 2T-009 Outlet "Local/Control Room" Selector Switch | CONTROL ROOM | <u>[Signature]</u> |

TCN 6-21-82

2.0 PROCEDURE (Continued)

| <u>STEP</u> | <u>COMPONENT</u> | <u>DESCRIPTION</u> | <u>NOTE</u> | <u>REQUIRED STATUS</u> | <u>INITIALS 1ST/2ND</u> |
|-------------|------------------|------------------------------------------------------------------|-------------|------------------------|------------------------------------|
| 2.5.3 | 2HS-9340C2 | SI Tank 2T-008 Outlet "Local/Control Room" Selector Switch | | CONTROL ROOM | <u>[Signature] / [Signature] R</u> |
| 2.5.4 | 2HS-9370C2 | SI Tank 2T-010 Outlet "Local/Control Room" Selector Switch | | CONTROL ROOM | <u>[Signature] / [Signature] R</u> |

2.6 Inside Panel 2L-071

| | | | | | |
|-------|----------------|-------------------------------------------------|-----|--------|------------------------------------|
| 2.6.1 | 2L071-1F-DS712 | SIT 2T-009 Fill and Drain Valve 2HV-9362 | (2) | CLOSED | <u>[Signature] / [Signature] R</u> |
| 2.6.2 | 2L071-1F-DS715 | SIT 2T-010 Fill and Drain Valve 2HV-9372 | (2) | CLOSED | <u>[Signature] / [Signature] R</u> |
| 2.6.3 | 2L071-2F-DS706 | SIT 2T-008 Fill and Drain Valve 2HV-9342 | (2) | CLOSED | <u>[Signature] / [Signature] R</u> |
| 2.6.4 | 2L071-2F-DS707 | SIT 2T-008 Nitrogen Supply Valve 2HV-9344 | (2) | CLOSED | <u>[Signature] / [Signature] R</u> |
| 2.6.5 | 2L071-2F-DS709 | SIT 2T-007 Fill and Drain Valve 2HV-9352 | (2) | CLOSED | <u>[Signature] / [Signature] R</u> |
| 2.6.6 | 2L071-2F-DS710 | SIT 2T-007 Nitrogen Supply Valve 2HV-9354 | (2) | CLOSED | <u>[Signature] / [Signature] R</u> |
| 2.6.7 | 2L071-2F-DS713 | SIT 2T-009 Nitrogen Supply Valve 2HV-9364 | (2) | CLOSED | <u>[Signature] / [Signature] R</u> |
| 2.6.8 | 2L071-2F-DS716 | SIT 2T-010 Nitrogen Supply Valve 2HV-9374 | (2) | CLOSED | <u>[Signature] / [Signature] R</u> |

NOTE: (2) Requires a manual reset on a loss of power.

2.0 PROCEDURE (Continued)

| <u>STEP</u> | <u>COMPONENT</u> | <u>DESCRIPTION</u> | <u>REQUIRED STATUS</u> | <u>INITIALS</u> <u>1ST/2ND</u> |
|-------------|----------------------------------|---------------------------------------------------------------------------|------------------------|-----------------------------------|
| 2.6.9 | 2L071-3F-DS401 | SI Header Check Valve Leakage Drain Valve 2HV-9351 | CLOSED | <u>JM/101 R</u> |
| 2.6.10 | 2L071-3F-DS402 | SI Header Check Valve Leakage Drain Valve 2HV-9361 | CLOSED | <u>JM/101 R</u> |
| 2.6.11 | 2L071-5F-DS454 & DS455 | SIT 2T-008 Vent Valve 2HV-9345 | CLOSED | <u>C. [Signature]</u> |
| 2.6.12 | F-19/F-20 | 2HV-9345 Fuses | INSTALLED | <u>JM/101 R</u> |
| 2.6.13 | 2L071-5F-DS456 | Number One Header HP Hot Leg Injection Line Drain Valve 2HV-9433 | CLOSED | <u>JM/101 R</u> |
| 2.6.14 | 2L071-5F-DS463 & DS464 | SIT 2T-010 Vent Valve 2HV-9375 | CLOSED | <u>JM/101 R</u> |
| 2.6.15 | F-23/F-24 | 2HV-9375 Fuses | INSTALLED | <u>JM/101 R</u> |
| 2.6.16 | 2L071-3R-DS401 | SI Header Check Valve Leakage Drain Valve 2HV-9341 | CLOSED | <u>JM/101 R</u> |
| 2.6.17 | 2L071-3R-DS402 | SI Header Check Valve Leakage Drain Valve 2HV-9371 | CLOSED | <u>JM/101 R</u> |
| 2.6.18 | 2L071-3R-DS-445 2HV-9365 | SIT 2T-009 Vent Valve 2HV-9365 | CLOSED | <u>C. [Signature]</u> |
| 2.6.19 | F-52/F-53 | 2HV-9365 Fuses | INSTALLED | <u>JM/101 R</u> |

24 |

24 |

24 |

2.0 PROCEDURE (Continued)

| <u>STEP</u> | <u>COMPONENT</u> | <u>DESCRIPTION</u> | <u>REQUIRED STATUS</u> | <u>INITIALS</u> <u>1ST/2ND</u> |
|-------------|---------------------------|-------------------------------------------------------------------|----------------------------|-----------------------------------|
| 2.6.20 | 2L071-3R-DS447 | Number Two Header HP Hot Leg Injection Drain Valve 2HV-9437 | CLOSED | <i>[Signature]</i> 1/21/12 |
| 2.6.21 | 2L071-3R-DS456 | SIT 2T-007 Vent Valve 2HV-9355 | CLOSED | <i>[Signature]</i> 1/21/12 |
| 2.6.22 | F-56/F-57 | 2HV-9355 Fuses | INSTALLED | <i>[Signature]</i> 1/21/12 |
| 2.6.23 | 2L071-3F-DS811 | Train A SIAS Automatic Alert system to OES in Sacramento | CLOSED | <i>[Signature]</i> |
| 2.6.24 | 2L071-3R-DS911 | Train B SIAS automatic alert system to OES in Sacramento | CLOSED | <i>[Signature]</i> 1/21/12 |
| 2.6.25 | 2HS-8998 | Automatic Alert System alarm Bypass keyswitch at 2L-492 | OPERATE/ Key Removed | <i>[Signature]</i> 1/21/12 |
| 2.6.26 | 2RL071-3F DS421; SW8 | 2HV-0509; RCS T _H #1 Sample Valve | CLOSED | <i>[Signature]</i> 1/21/12 |
| 2.6.27 | 2RL071-4F- DS422; SW36 | 2HV-0513, PZR Sample Valve | CLOSED | <i>[Signature]</i> 1/21/12 |
| 2.6.28 | 2RL071-DS-420 | 2HV-0511, PZR Vapor Sample Valve | CLOSED | <i>[Signature]</i> 1/21/12 |

2.7 Electrical Line-Up for Containment Pressure

| | | | | |
|-------|--------------------------|----------------------------|--------|----------------------------|
| 2.7.1 | 2RL071-5F DS459; SW44 | 2HV-0352-A Power Supply | CLOSED | <i>[Signature]</i> 1/21/12 |
| 2.7.2 | 2RL071-5R DS454; SW90 | 2HV-0352-B Power Supply | CLOSED | <i>[Signature]</i> 1/21/12 |
| 2.7.3 | 2RL071-5R DS401; SW77 | 2HV-0352-C Power Supply | CLOSED | <i>[Signature]</i> 1/21/12 |
| 2.7.4 | 2RL071-5R DS201; SW79 | 2HV-0352-D Power Supply | CLOSED | <i>[Signature]</i> 1/21/12 |

2.0 PROCEDURE (Continued)

2.8 The following aligns the Emerg. Evacuation Sirens to prevent an inadvertent actuation. If sirens are in service, N/A step 2.7.1. (When in service, 2HS-7890-1 Green light indicates STOP).

2.8.1 Verify open or open:

| | | | |
|------------------|------------------------|------|-----------------------|
| .1.1 BQ-13 | Emerg. Siren Cont. Pnl | OPEN | <i>[Signature]</i> NA |
| .1.2 BQ-26 | Emerg. Siren Cont. Pnl | OPEN | <i>[Signature]</i> NA |
| .1.3 Q033 bkr 11 | Electronic Siren | OPEN | <i>[Signature]</i> NA |
| .1.4 Q033 bkr 13 | Electronic Siren | OPEN | <i>[Signature]</i> NA |
| .1.5 Q033 bkr 15 | Electronic Siren | OPEN | <i>[Signature]</i> NA |

2.8.2 Verify or perform:

| | | | |
|------------------|--------------------|--------|-----------------------|
| .2.1 BQ-27 | Q033 pwr. supply | CLOSED | <i>[Signature]</i> NA |
| .2.2 Q033 bkr 14 | Aux. Emerg. Siren | CLOSED | <i>[Signature]</i> NA |
| .2.3 L344 DS-15 | Aux. Emerg. Siren | CLOSED | <i>[Signature]</i> NA |
| .2.4 2HS-7890-1 | Emerg. Evac. Siren | STOP | <i>[Signature]</i> NA |
| .2.5 3HS-7890-1 | Emerg. Evac. Siren | STOP | <i>[Signature]</i> NA |

2.8.3 Verify closed or close:

| | | | |
|------------------|------------------------|--------|-----------------------|
| .3.1 Q033 bkr 11 | Electronic Siren | CLOSED | <i>[Signature]</i> NA |
| .3.2 Q033 bkr 13 | Electronic Siren | CLOSED | <i>[Signature]</i> NA |
| .3.3 Q033 bkr 15 | Electronic Siren | CLOSED | <i>[Signature]</i> NA |
| .3.4 BQ-13 | Emerg. Siren Cont. Pnl | CLOSED | <i>[Signature]</i> NA |
| .3.5 BQ-26 | Emerg. Siren Cont. pnl | CLOSED | <i>[Signature]</i> NA |

PERFORMED BY: *[Signature]*
Operator Initial

DATE/TIME 02-15-85/2200

PERFORMED BY: *[Signature]* *[Signature]*
Operator Initial

DATE/TIME 2-16-85/0245

PERFORMED BY: *[Signature]* *[Signature]*
Operator Initial

DATE/TIME 3-10-85 KAD

VERIFIED BY: *[Signature]* *[Signature]*
Operator Initial

DATE/TIME 2/15/85 2200

VERIFIED BY: *[Signature]* *[Signature]*
Operator Initial

DATE/TIME 2-16-85 0030

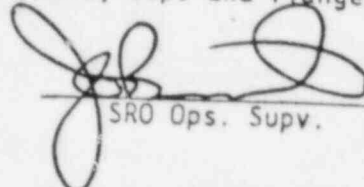
3-10-85

SAN ONOFRE NUCLEAR GENERATING STATION
UNITS 2 AND 3

OPERATING INSTRUCTION S023-3-2.7
REVISION 7 PAGE 8 OF 8
ATTACHMENT 8.3
CHECK-OFF LIST 3
TCN 7-8

NOTE: SRO Ops. Supv. shall not sign "Reviewed By" until all comments in relation to this Check-Off List have been resolved i.e.: TCNs written and incorporated, caps and flanges installed, locks and chains in place, etc.

REVIEWED BY:


SRO Ops. Supv.

DATE/TIME 3-10-85 1700

FILE DISPOSITION: File per S023-0-28

COMMENTS:

